

Appendix F

Pre-Site Investigation and Site Investigation Boring Logs and Well Construction Details

Key to Hart Crowser Exploration Logs

Sample Description

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:

Density/consistency, moisture, color, minor constituents, MAJOR CONSTITUENT, additional remarks.

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance.

Soil density/consistency in test pits is estimated based on visual observation and is presented parenthetically on the test pit logs.

SAND or GRAVEL	Standard Penetration Resistance (N) in Blows/Foot	SILT or CLAY	Standard Penetration Resistance (N) in Blows/Foot	Approximate Shear Strength in TSF
Density		Consistency		
Very loose	0 - 4	Very soft	0 - 2	<0.125
Loose	4 - 10	Soft	2 - 4	0.125 - 0.25
Medium dense	10 - 30	Medium stiff	4 - 8	0.25 - 0.5
Dense	30 - 50	Stiff	8 - 15	0.5 - 1.0
Very dense	>50	Very stiff	15 - 30	1.0 - 2.0
		Hard	>30	>2.0

Moisture

Dry	Little perceptible moisture
Damp	Some perceptible moisture, probably below optimum
Moist	Probably near optimum moisture content
Wet	Much perceptible moisture, probably above optimum

Minor Constituents





Estimated Percentage

Not identified in description	0 - 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sandy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50




Legends

Sampling Test Symbols


BORING SAMPLES

	Split Spoon
	Shelby Tube
	Cuttings
	Core Run
*	No Sample Recovery
P	Tube Pushed, Not Driven

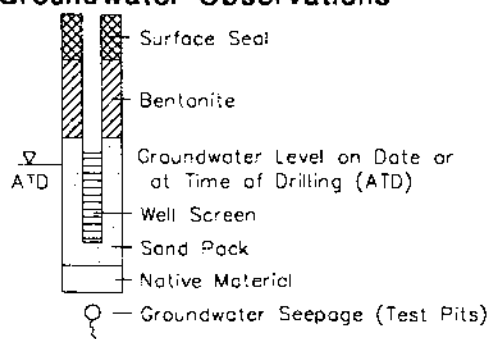
TEST PIT SAMPLES

	Grab (Jar)
	Bag
	Shelby Tube

Test Symbols

GS	Grain Size Classification
CN	Consolidation
UU	Unconsolidated Undrained Triaxial
CU	Consolidated Undrained Triaxial
CD	Consolidated Drained Triaxial
QU	Unconfined Compression
DS	Direct Shear
K	Permeability
PP	Pocket Penetrometer Approximate Compressive Strength in TSF
TV	Torvane Approximate Shear Strength in TSF
CBR	California Bearing Ratio
MD	Moisture Density Relationship
AL	Atterberg Limits
	 Water Content in Percent Liquid Limit Natural Plastic Limit
PID	Photoionization Detector Reading
CA	Chemical Analysis
DT	In Situ Density Test

Groundwater Observations



7026-04/A-1 STANDARD.dwg



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Figure A-1

Project: Baxter Arlington Arlington, Washington		Log of Boring No. B-1		
Date Started: 8/24/90		Total Depth: 50 ft	Casing Elev: N/A ft	Depth to GW: N/A ft
Date Completed: 8/24/90		Perforation: N/A		From: To: ft
Logged By: D. Walker		Pack: N/A		From: To: ft
Drilling Co: Soil Sampling Service Driller: Ketvirtis		Seal: N/A		From: To: ft
Drilling Method: 6" ID Hollow Stem Auger		Bentonite Slurry		From: surf. To: 50.0 ft
Drilling Equipment: Mobile Drill B-61		Casing: N/A Sampler: 3" OD Split-Spoon		

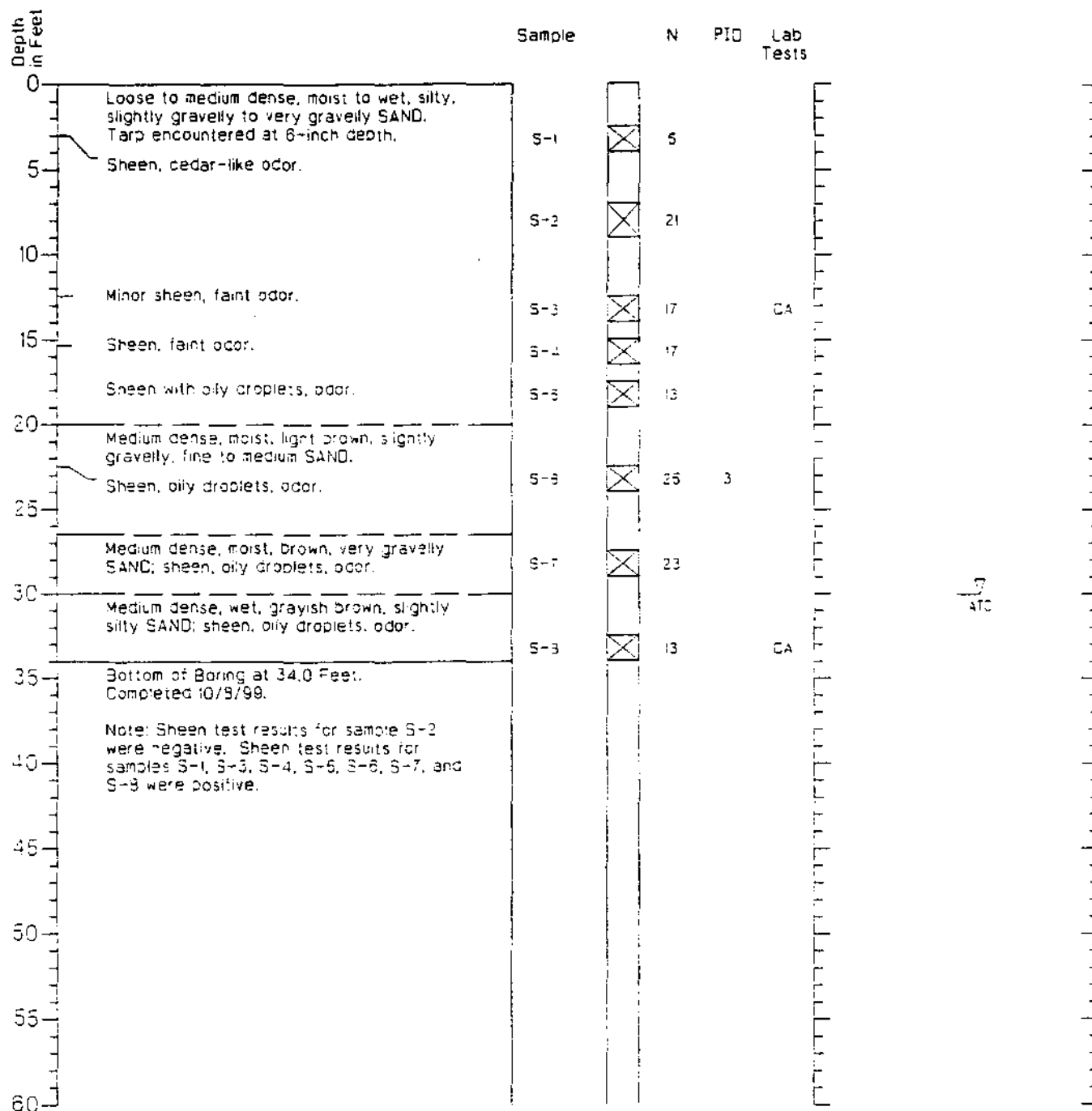
Depth (feet)	Sample	blow count	LITHOLOGIC DESCRIPTION	Lithology	Mon. Well Installation	REMARKS
5		2 4 4	loose, moist, brown silty gravel (GM), abundant wood chips	GM		OVA = 10 ppm
10		3 3 3	100% wood chips at 9.0 ft.			OVA = 1 ppm
15		6 16 19 18	dense, moist, gray sandy gravel (GP)	GP		OVA = 28 ppm
20		5 10 13	medium dense			OVA = 7 ppm
25		4 8 13	medium dense, moist, gray fine sand (SP/SM)	SP-SM		OVA = 0 ppm
		4 8 9	finer-grained, wet			OVA = 0 ppm

Depth (feet)	Sample	blow count	LITHOLOGIC DESCRIPTION	Lith- ology	Mon. Well Installation	REMARKS
30						
35	X	8 9 12	trace of gravel, saturated	SP-SM		OVA = 0 ppm
40	X	7 8 10				OVA = 4 ppm
45	X	7 12 14	fine to medium; seam of silty sand at 44 ft.	SP-SM		OVA = 3 ppm
50	X	16 18 18				OVA = 2 ppm
55			Bottom of boring at 50 feet.			

Boring Log BT-S

Geologic Log

Backfilled Boring

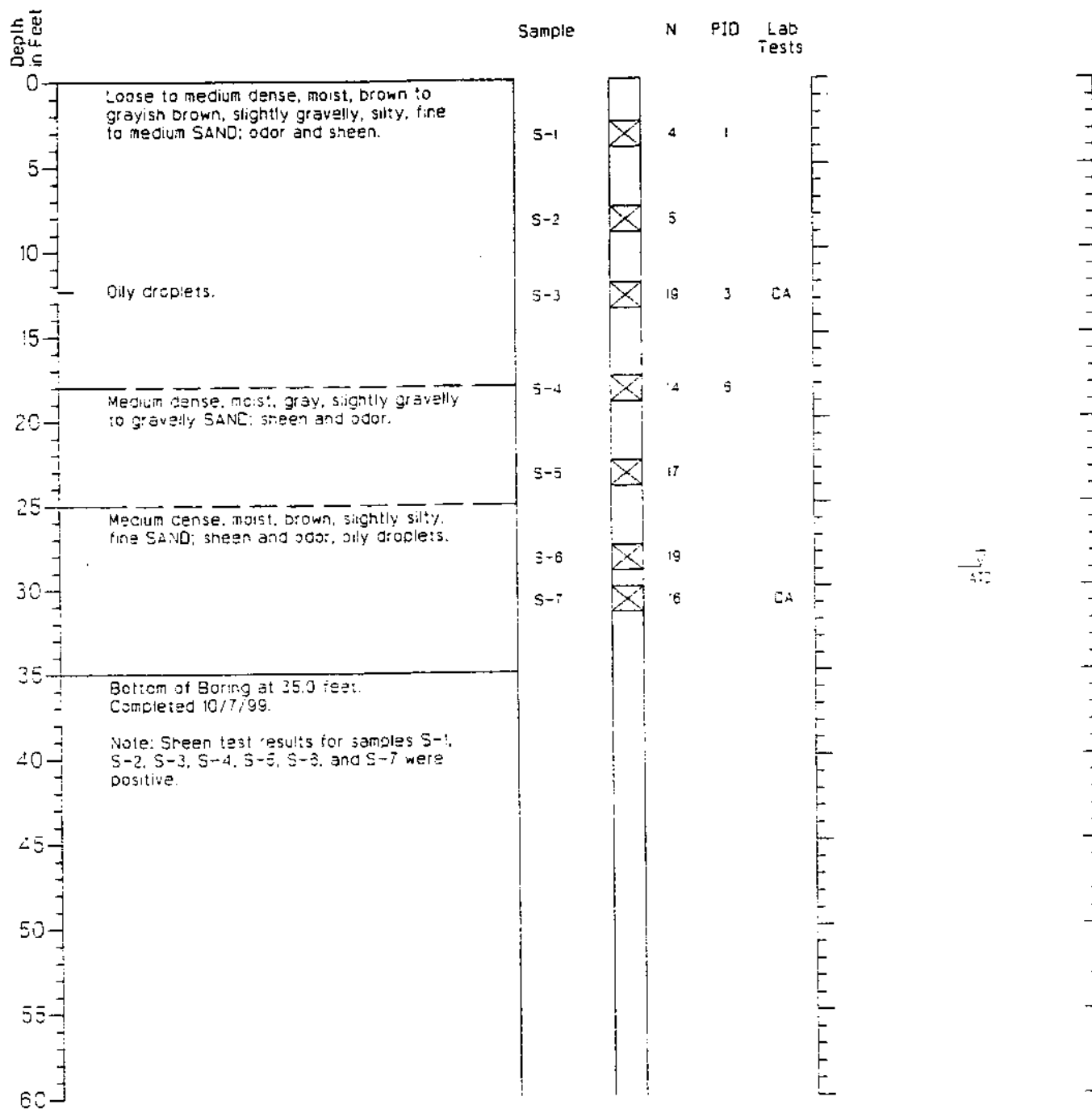


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATC) or for date specified. Level may vary with time.

Boring Log BT-W

Geologic Log

Backfilled Boring



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATC) or for date specified. Level may vary with time.



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J-7026-02

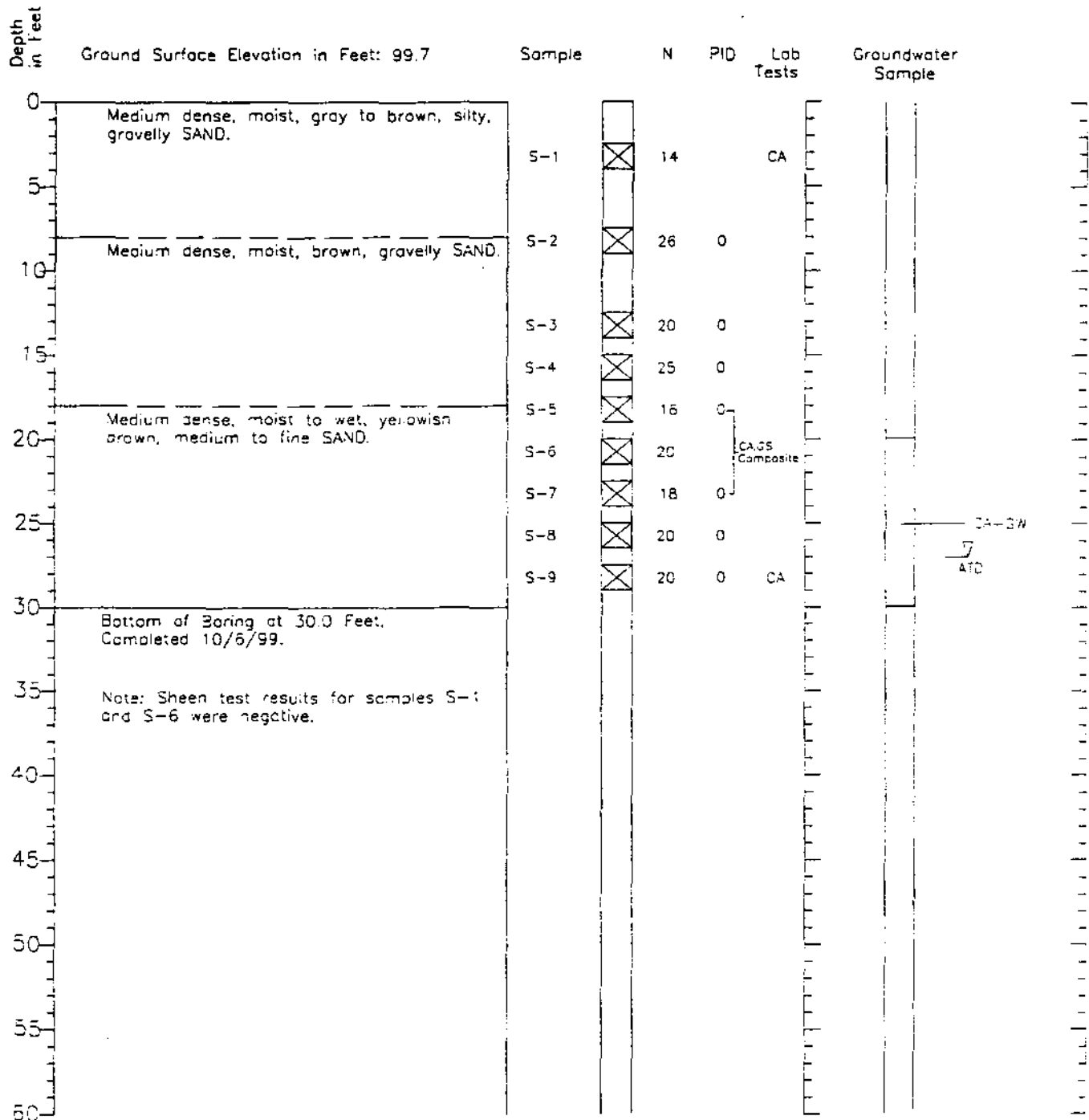
10/99

Figure A-13

Boring Log SB-2

Geologic Log

Monitoring
Well Design



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATC) or for date specified. Level may vary with time.



HARTCROWSER

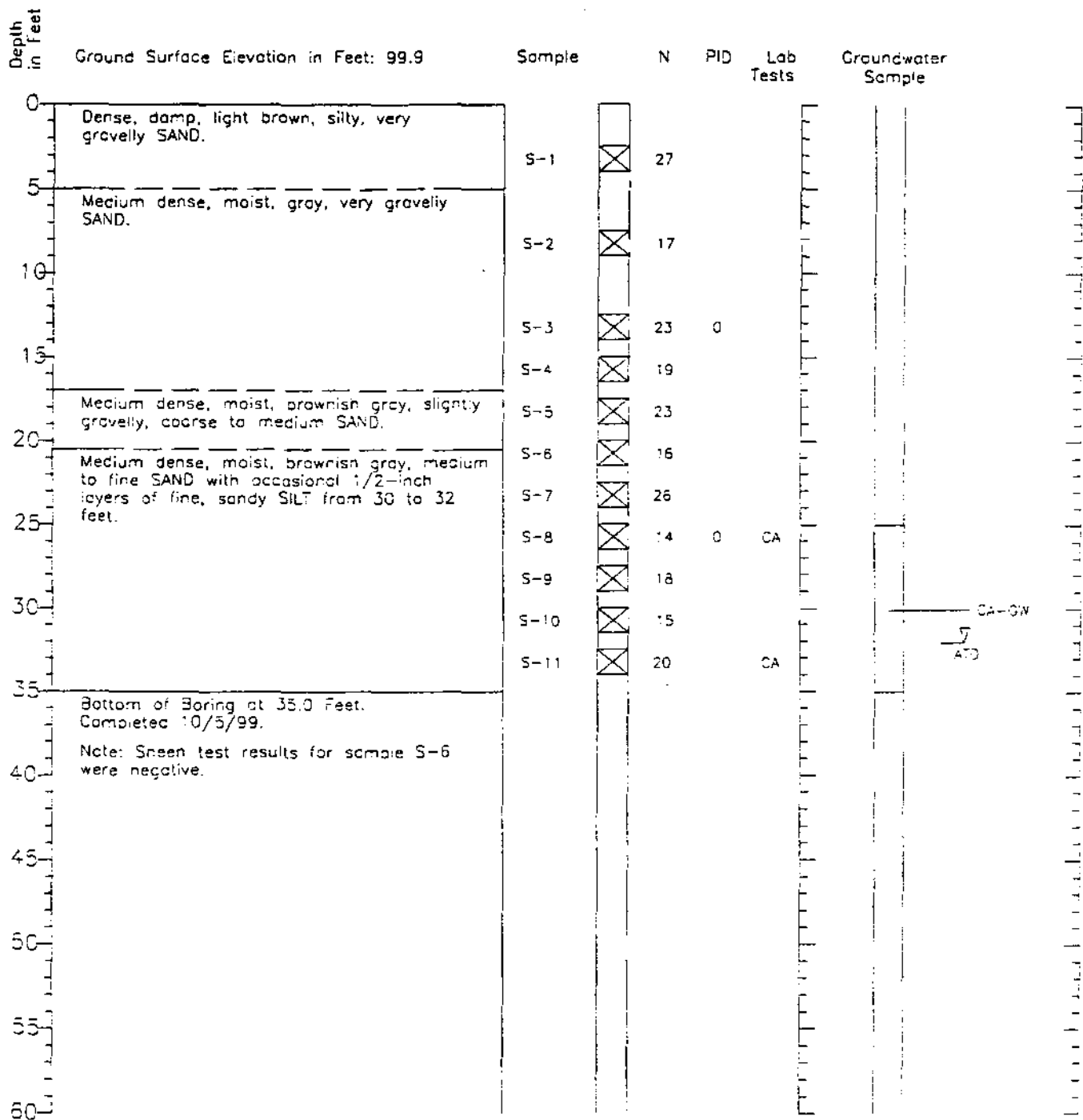
J-7026-02 2/00

Figure A-2

Boring Log SB-3

Geologic Log

Backfilled Boring



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER

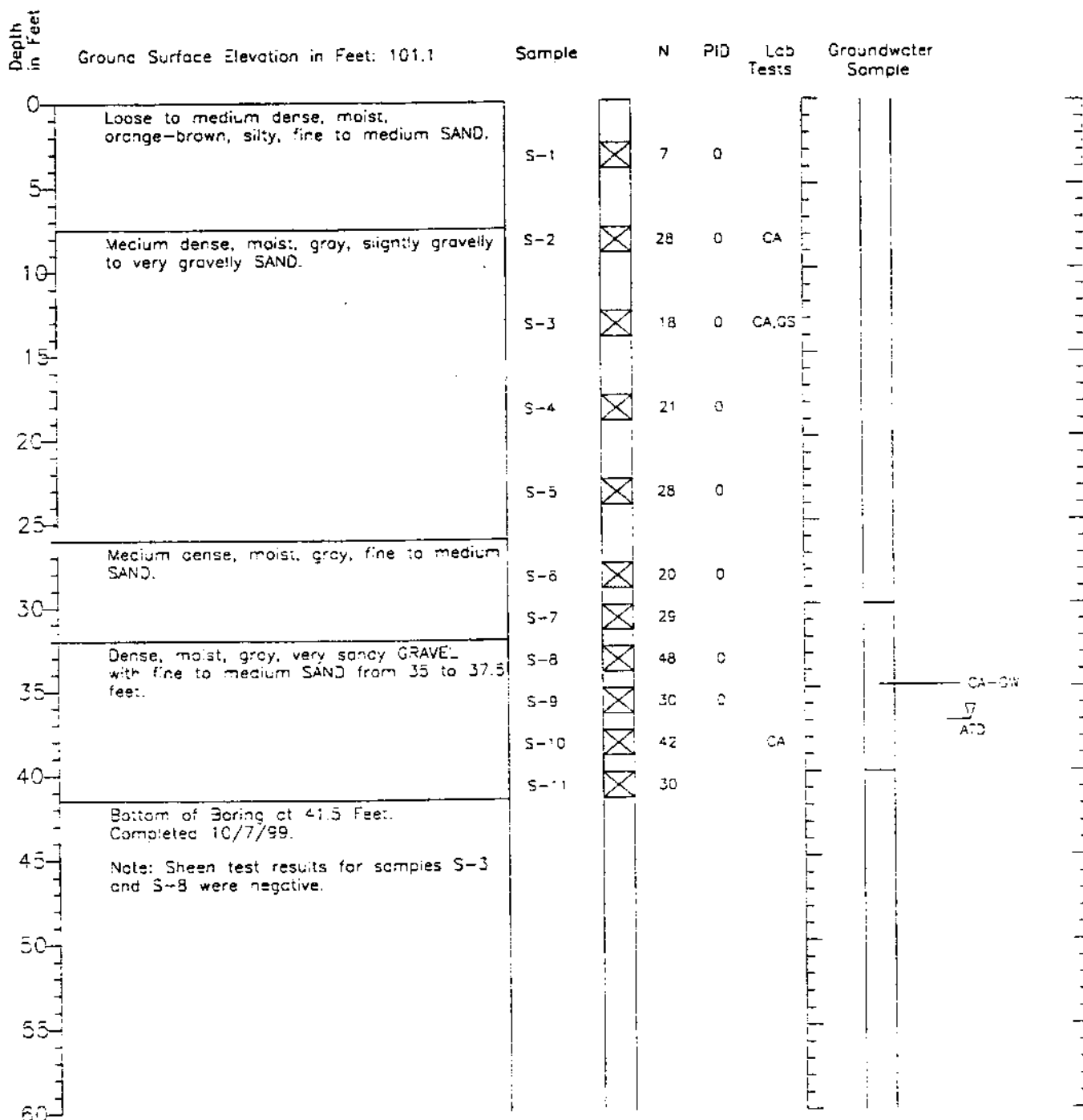
J-7026-02 2/00

Figure A-3

Boring Log SB-4

Geologic Log

Backfilled Boring



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER

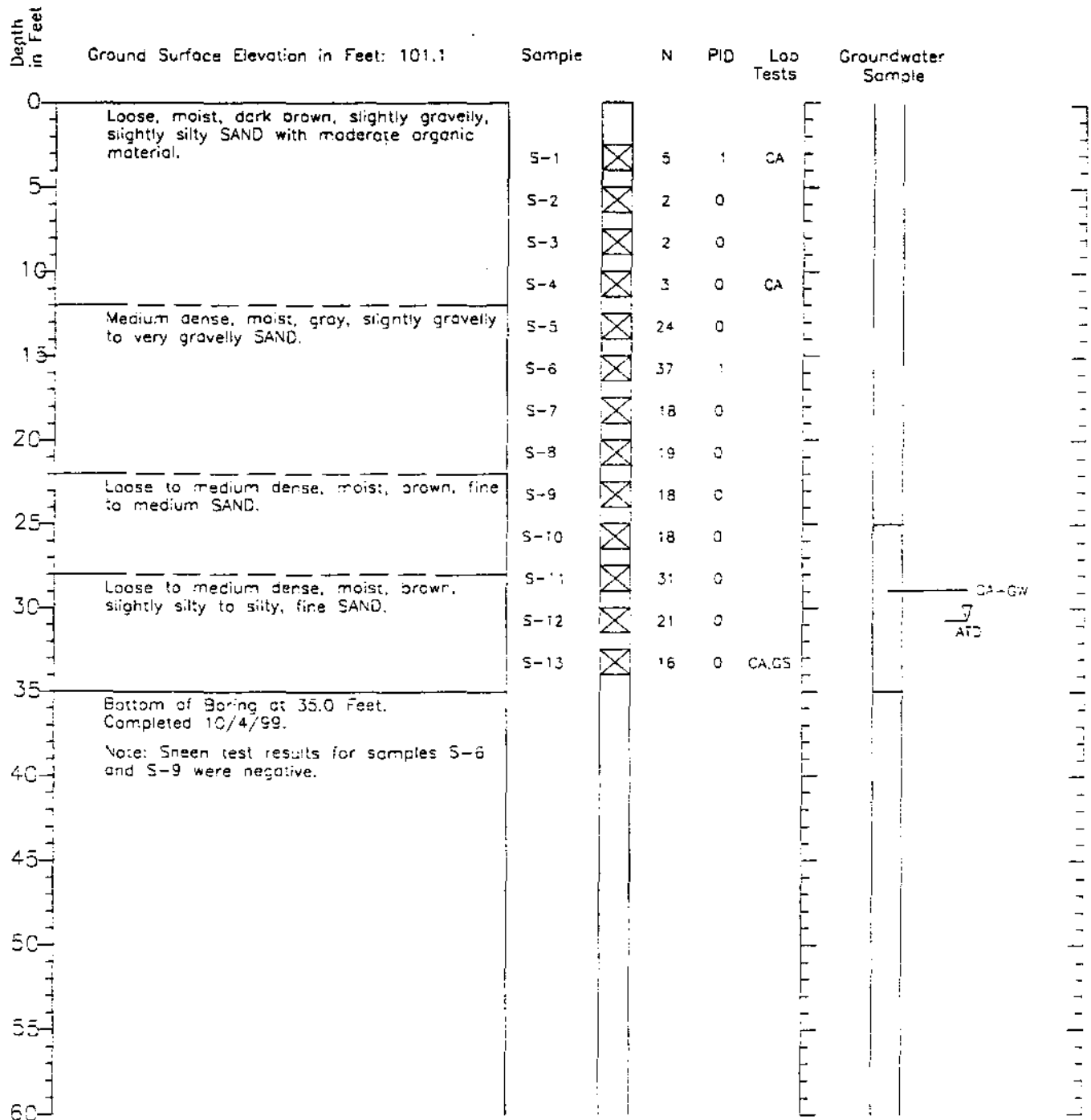
J-7026-02 2/00

Figure A-4

Boring Log SB-5

Geologic Log

Backfilled Boring



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER

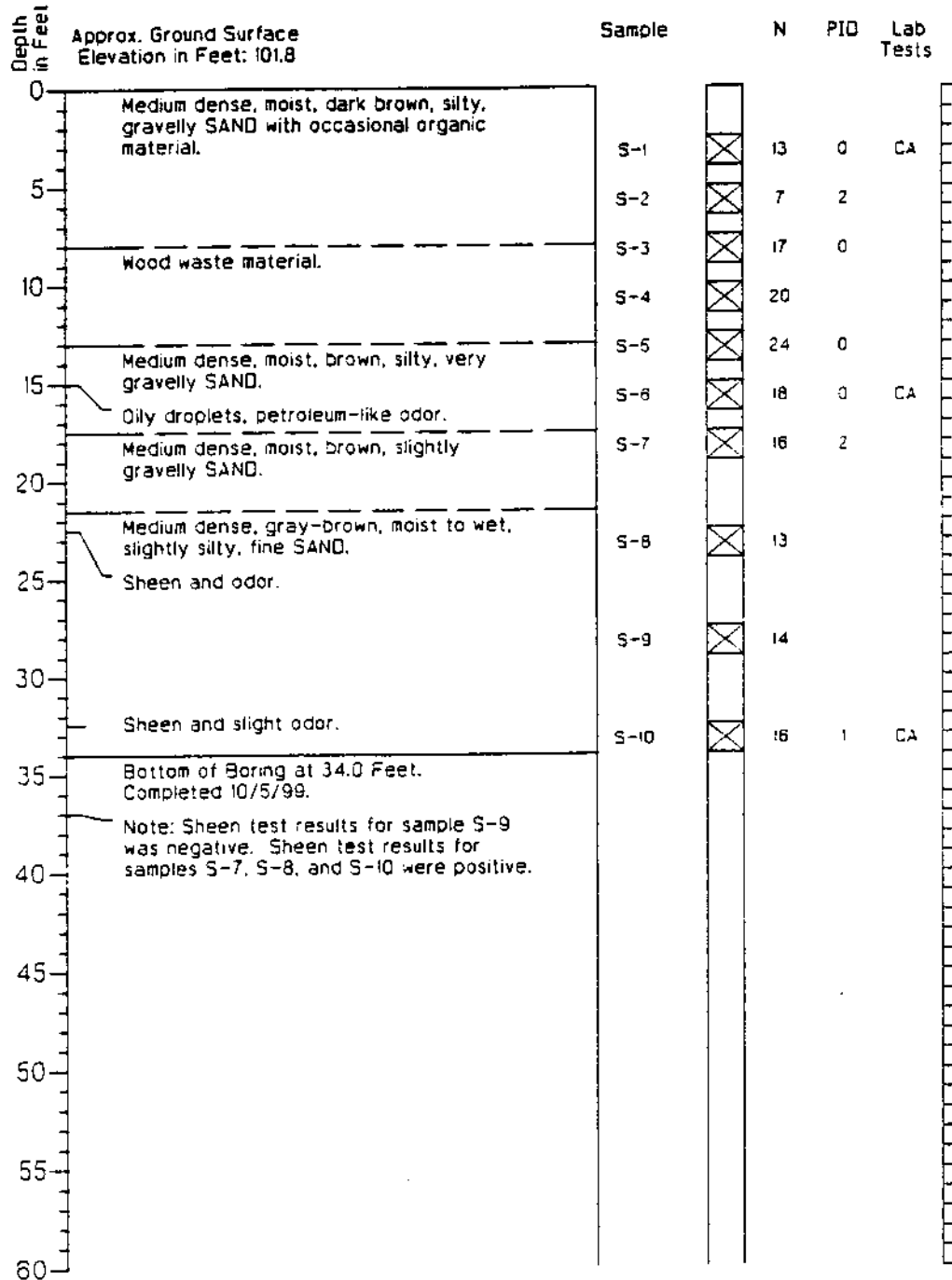
J-7026-02 2/00

Figure A-5

Boring Log SB-6

Geologic Log

Backfilled Boring

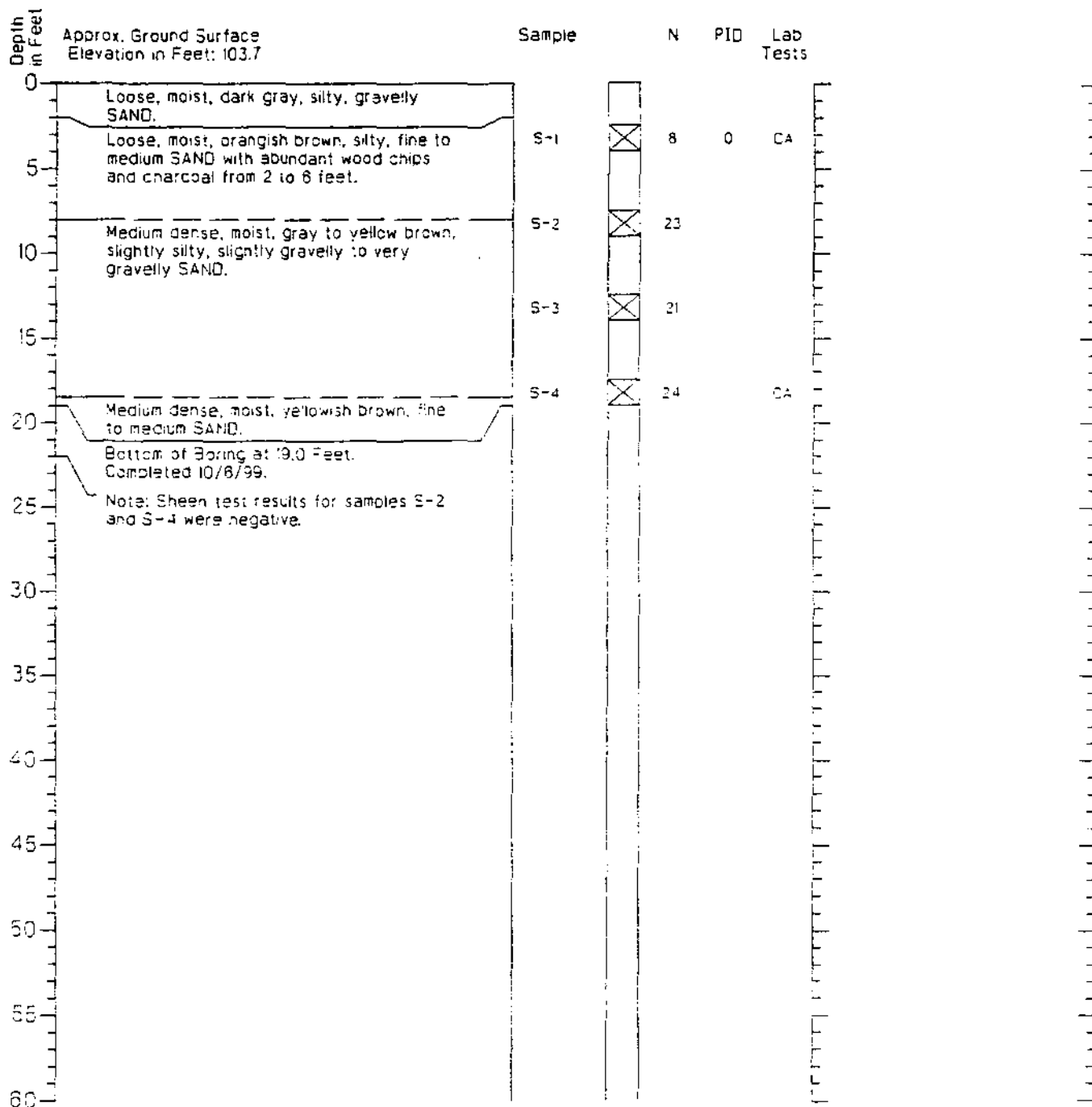


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log SB-7

Geologic Log

Backfilled Boring

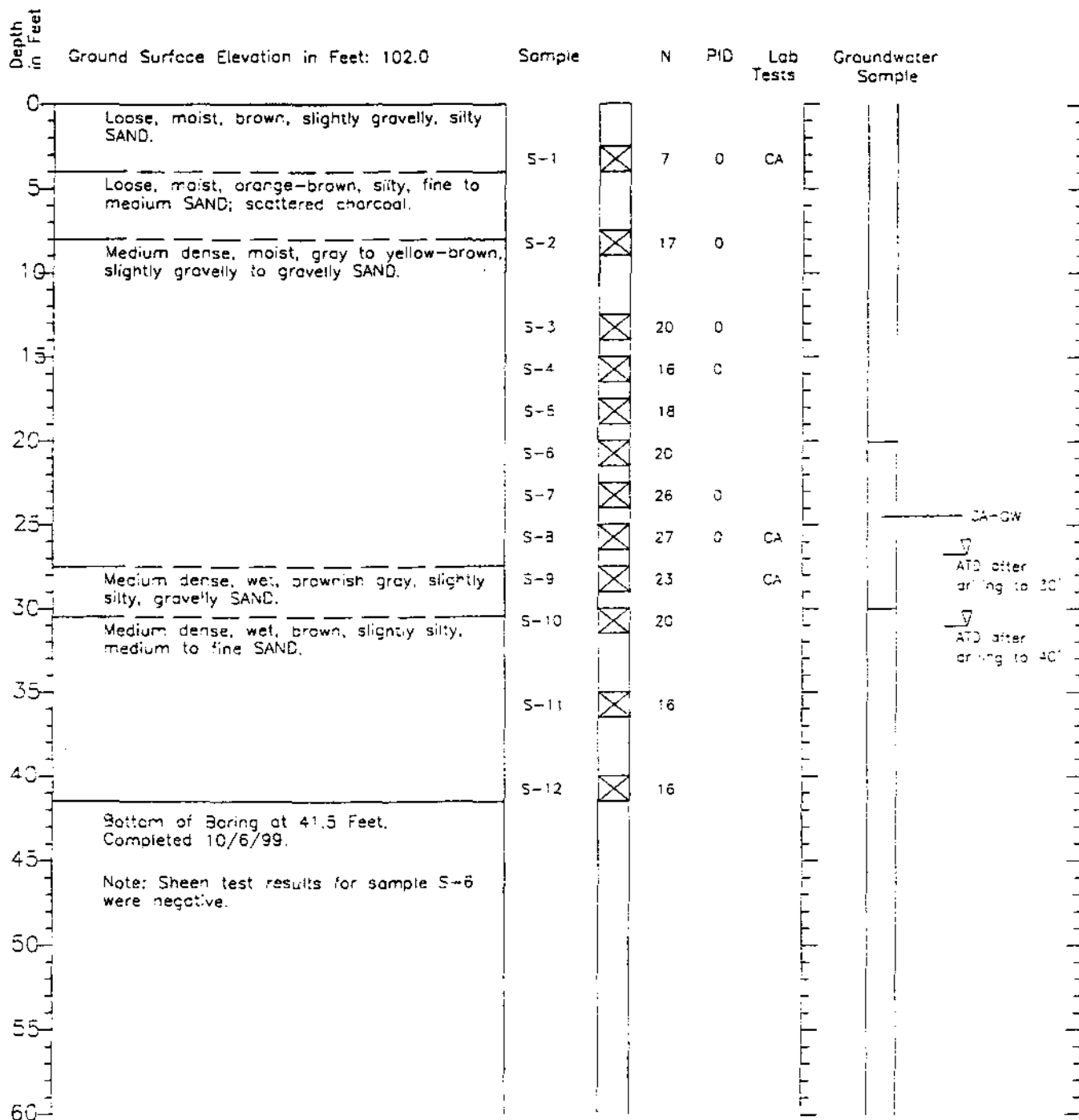


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATC) or for date specified. Level may vary with time.

Boring Log SB-8

Geologic Log

Backfilled Boring



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

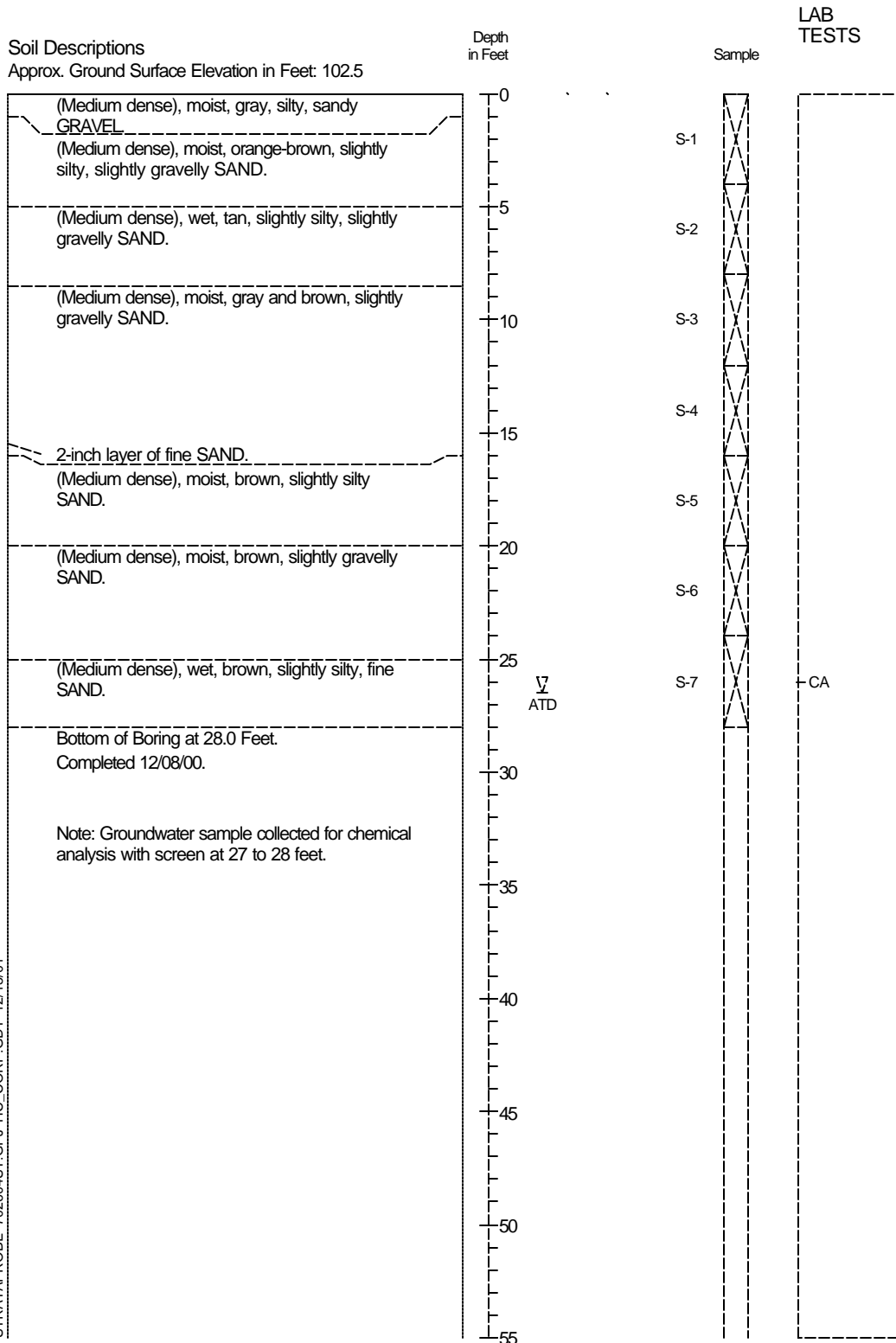


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Figure A-8

Strataprobe Boring Log SB- 9



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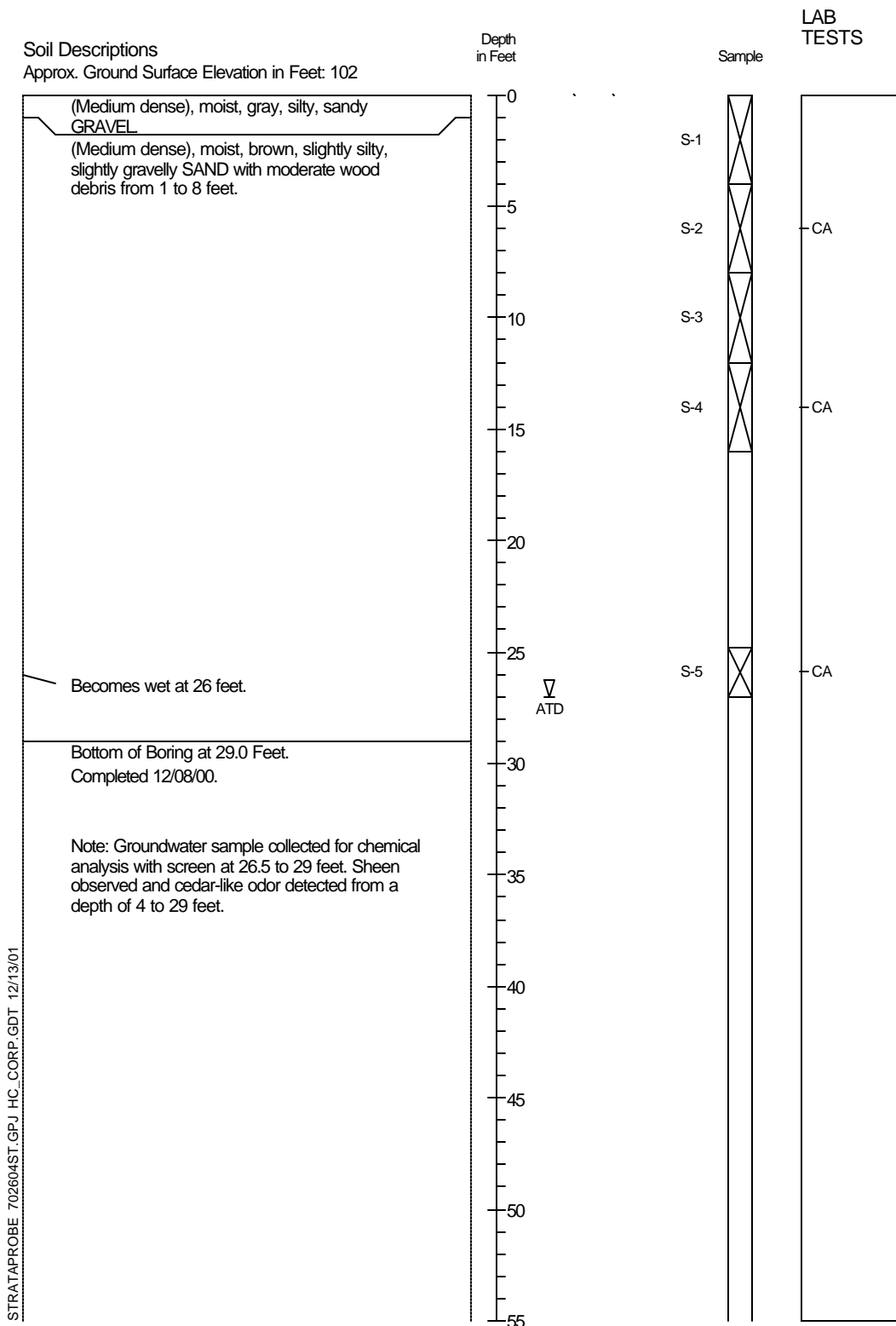
J-7026-04

12/00

Figure A-2

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-10



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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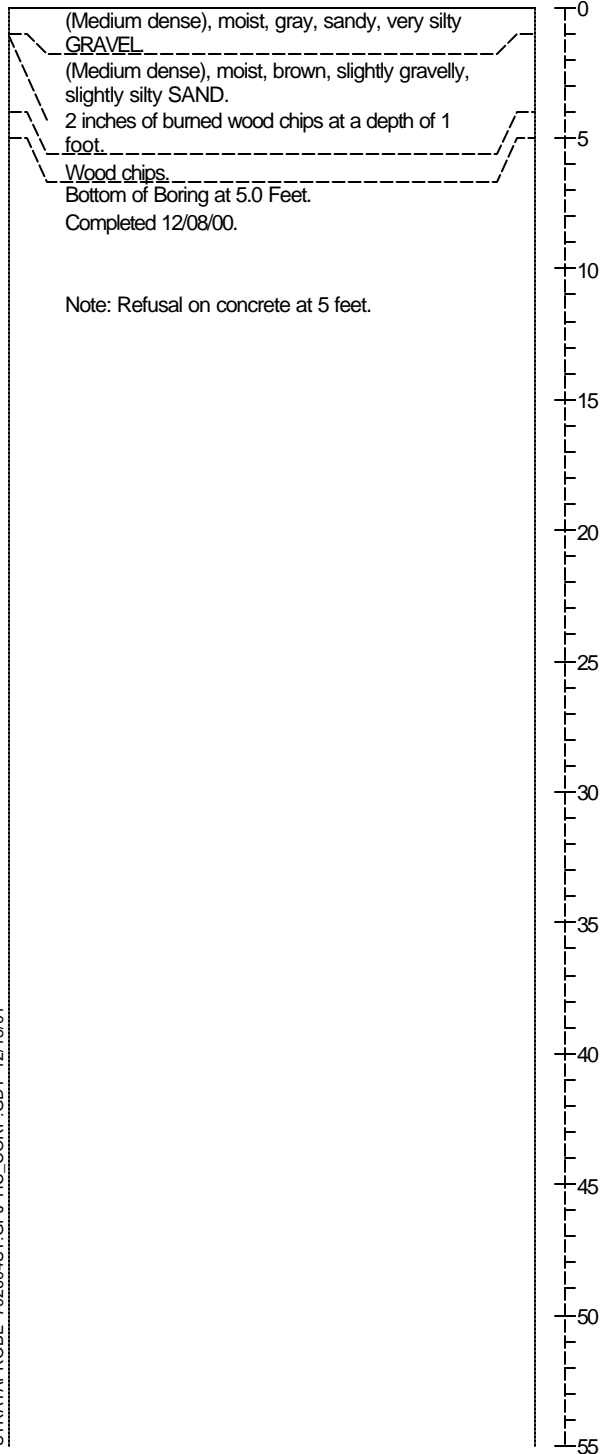
12/00

Figure A-3

Strataprobe Boring Log SB-11

Soil Descriptions

Approx. Ground Surface Elevation in Feet: 102



Depth
in Feet

Sample

LAB
TESTS

S-1

S-2

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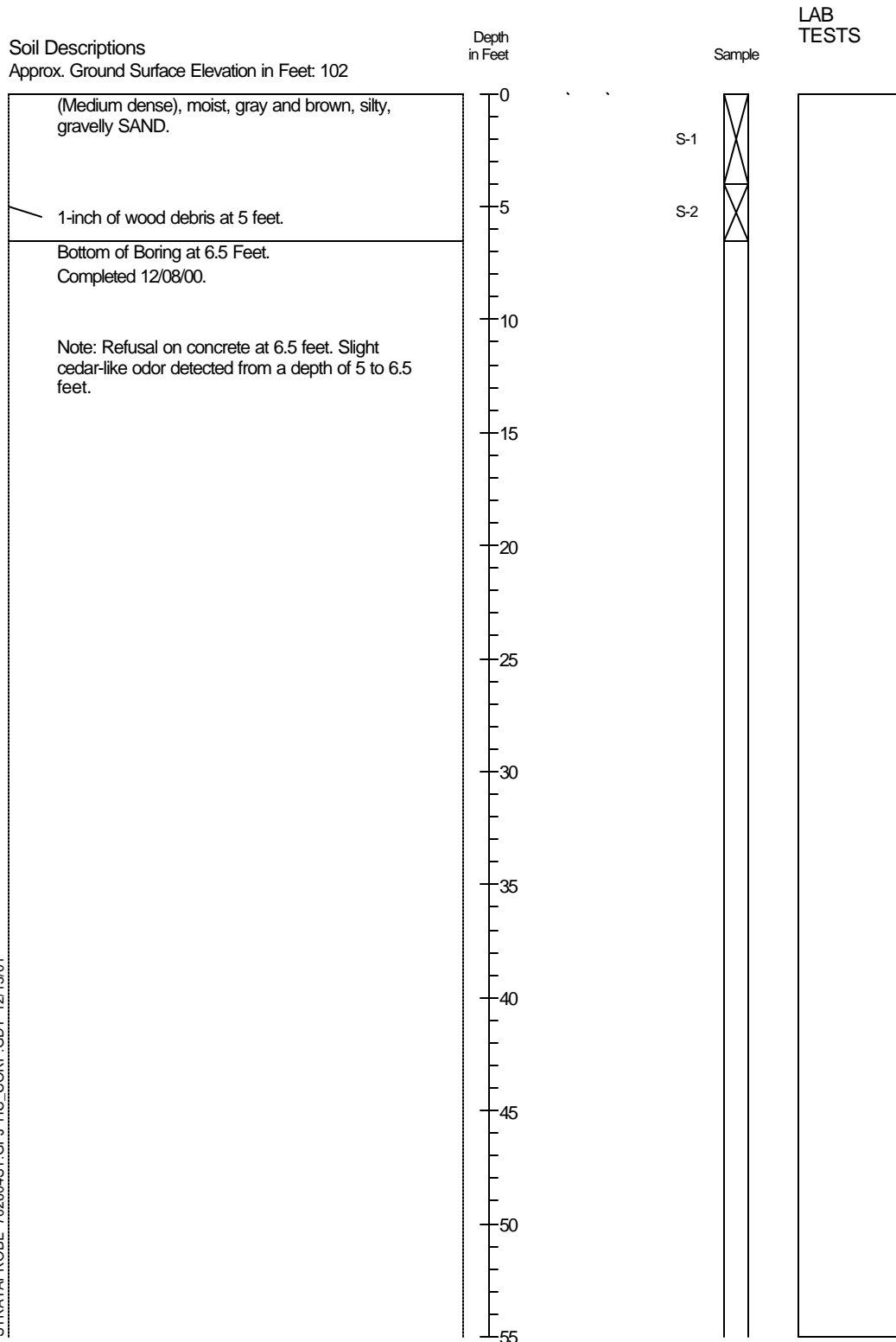
J-7026-04

12/00

Figure A-4

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

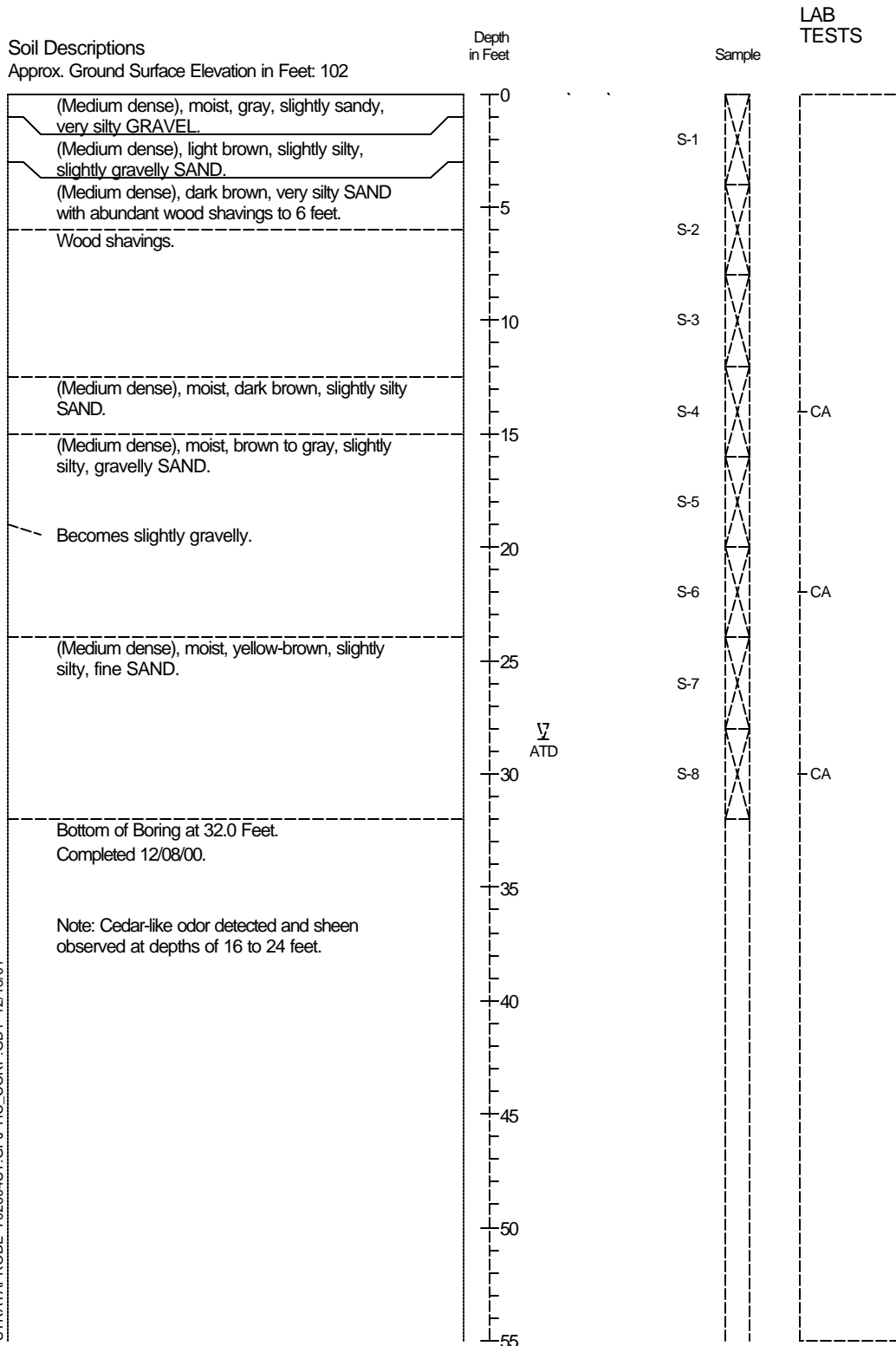
Strataprobe Boring Log SB-11(B)



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1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-12



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

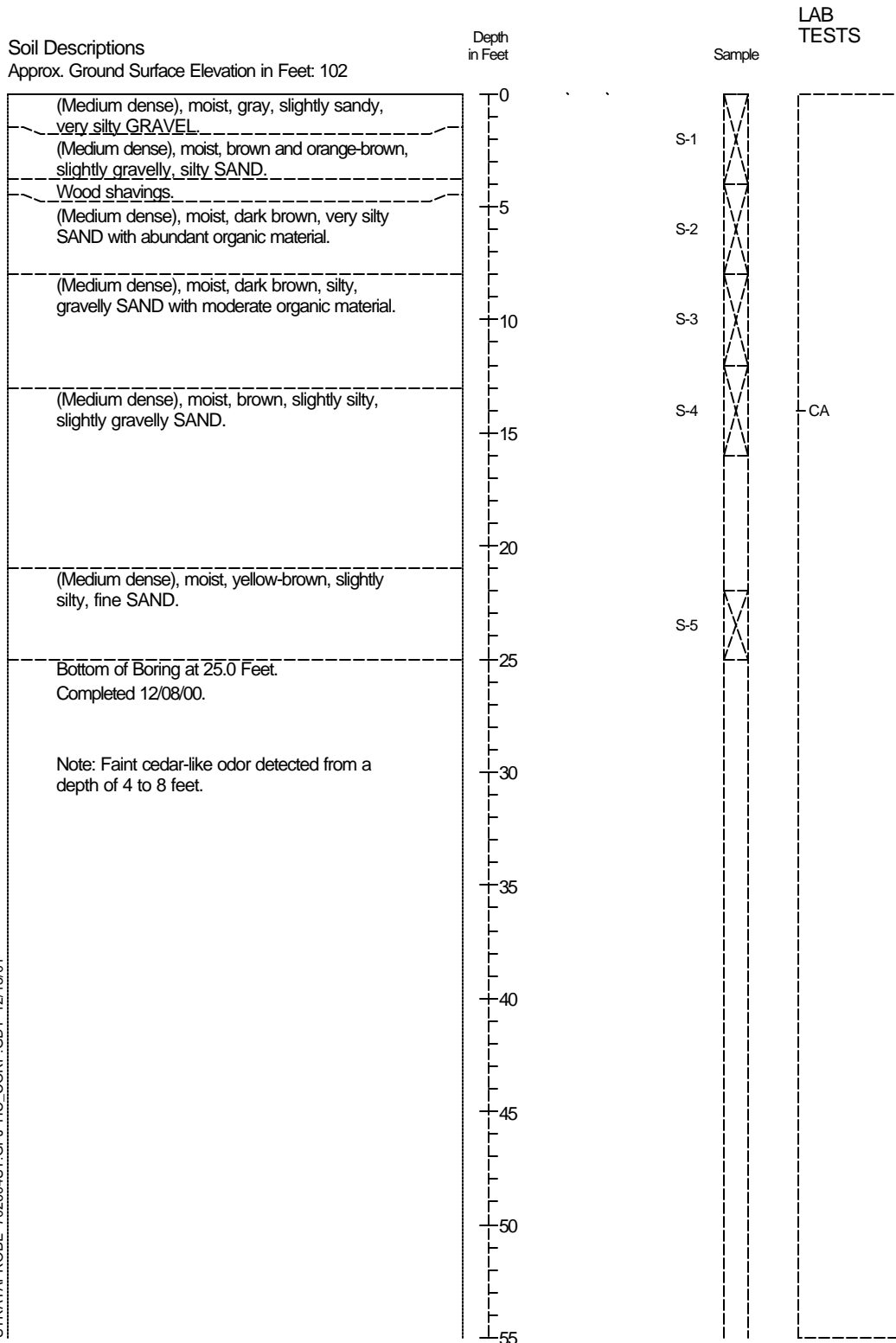


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Figure A-6

Strataprobe Boring Log SB-13



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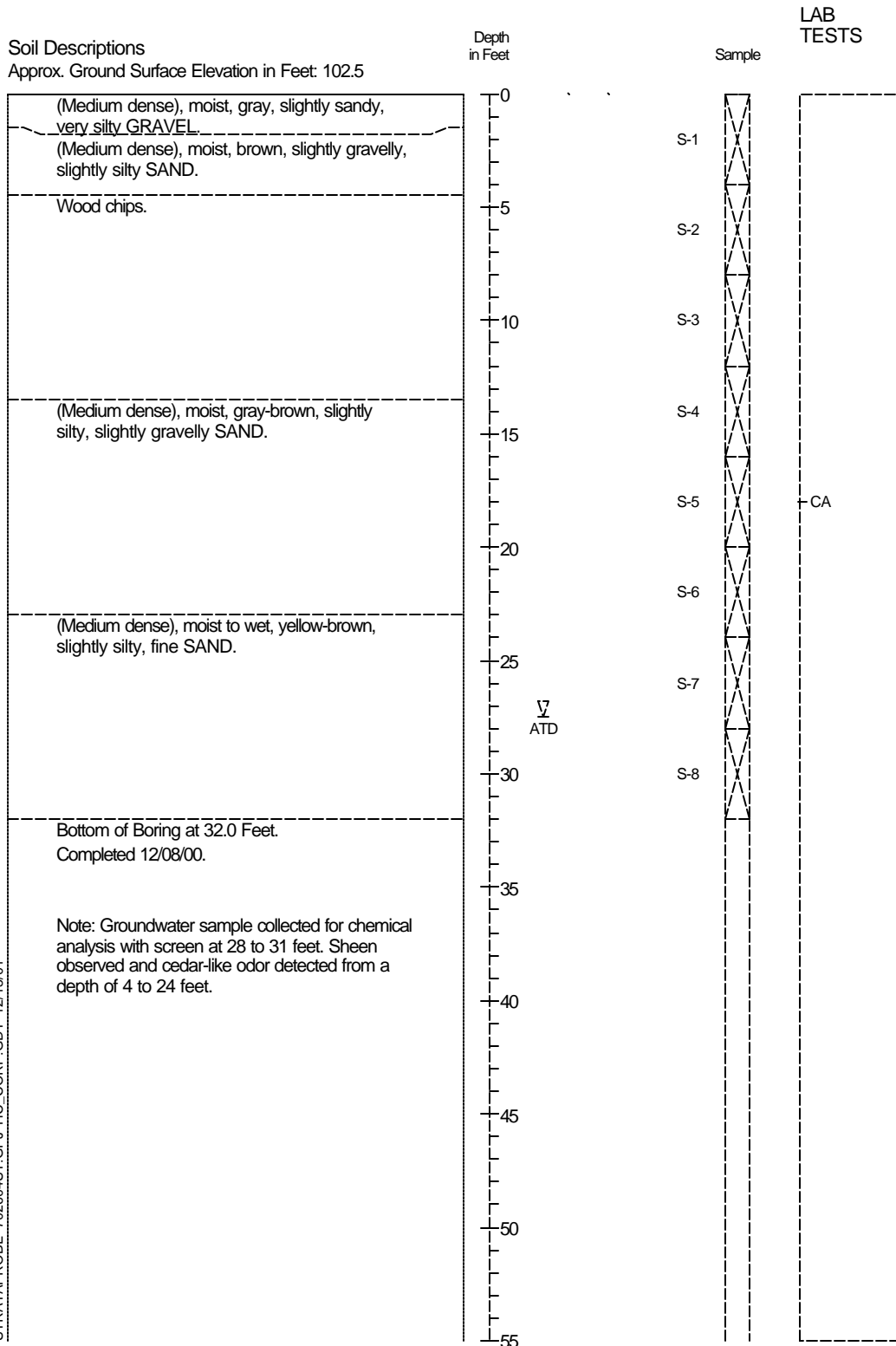
J-7026-04

12/00

Figure A-7

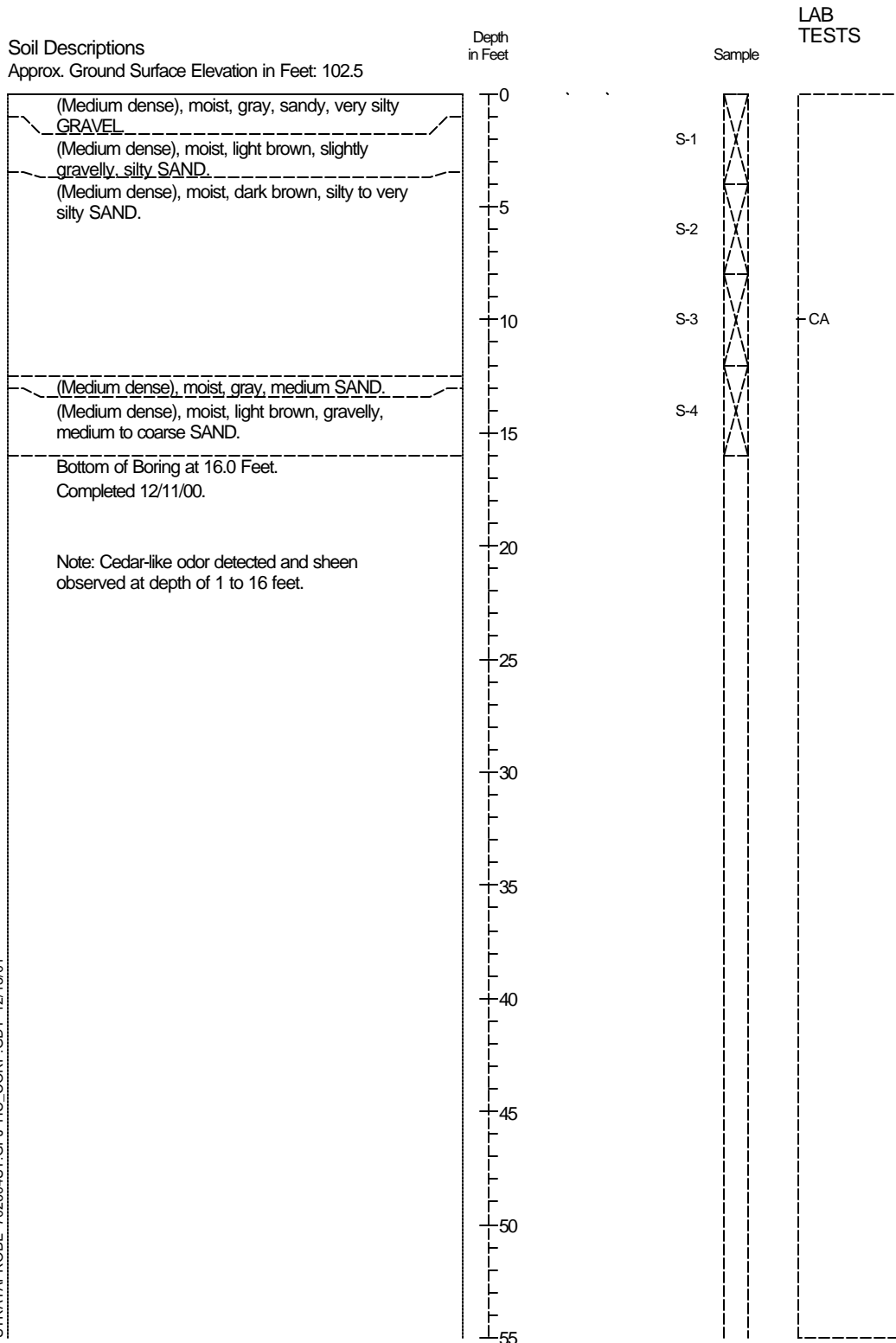
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-14



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-15



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-16

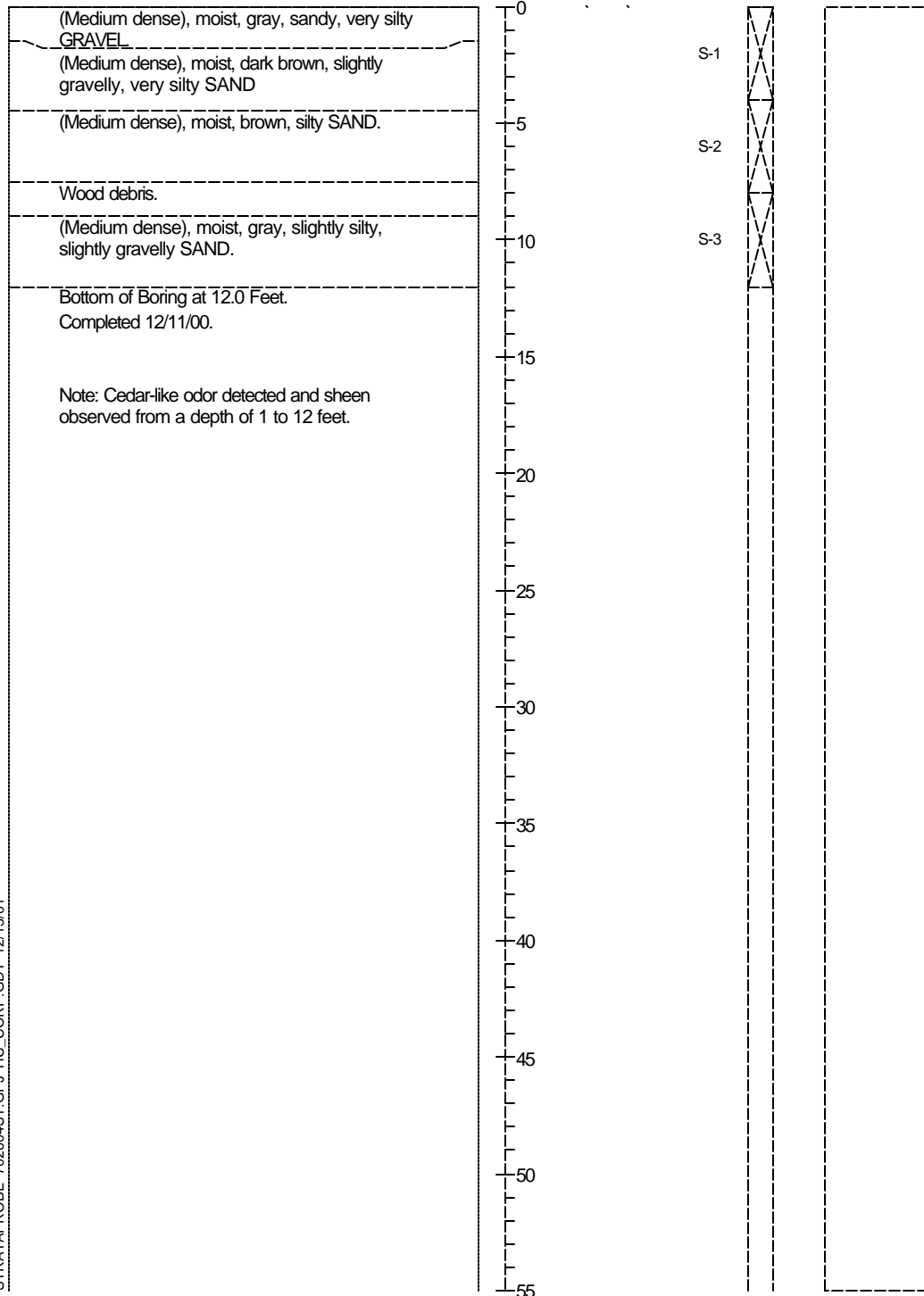
Soil Descriptions

Approx. Ground Surface Elevation in Feet: 103

Depth
in Feet

Sample

LAB
TESTS



STRATAPROBE 702604ST.GPJ HC_CORP.GDT 12/13/01



HARTCROWSER

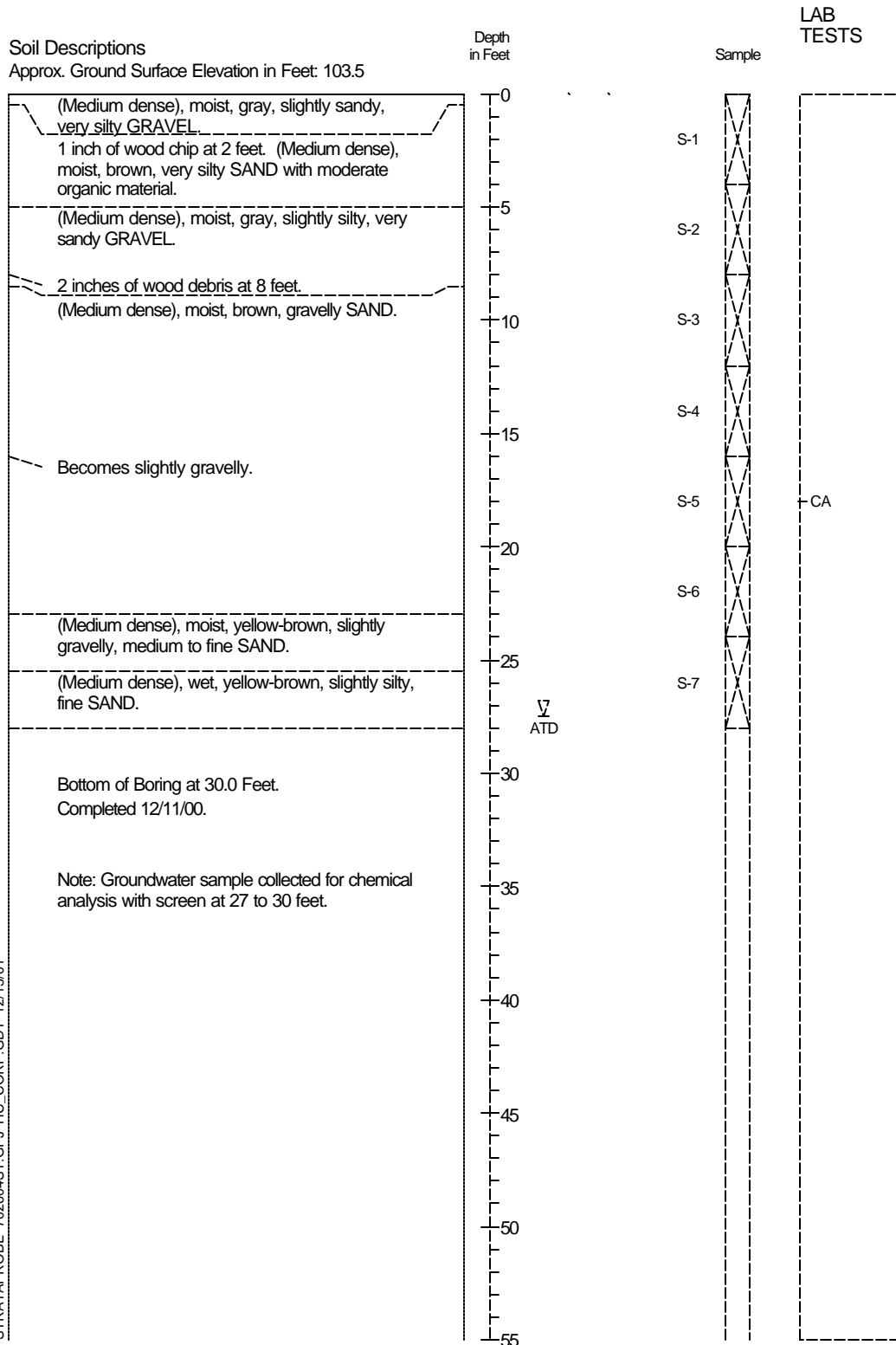
J-7026-04

12/00

Figure A-10

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-17



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-18

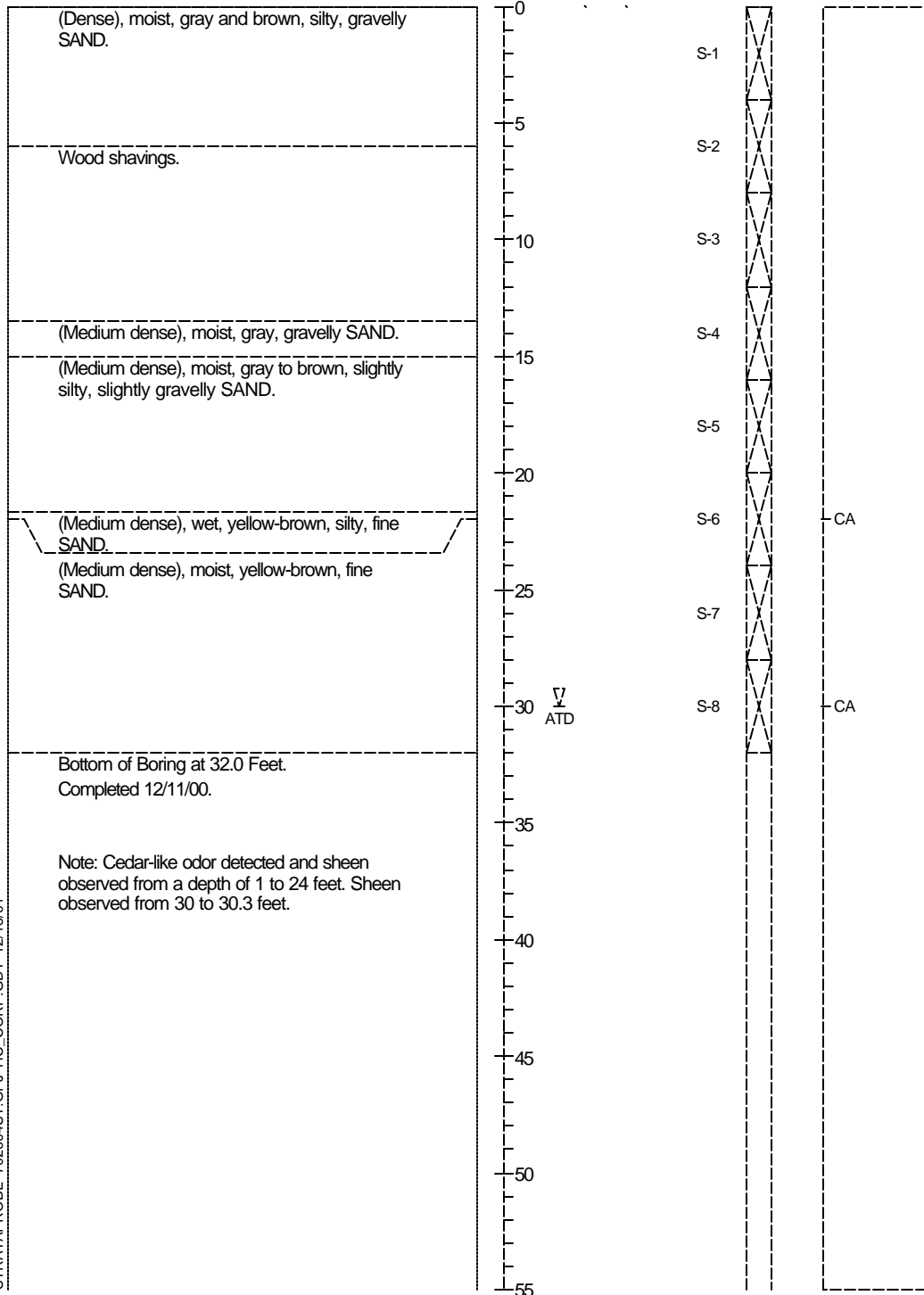
Soil Descriptions

Approx. Ground Surface Elevation in Feet: 101.5

Depth
in Feet

Sample

LAB
TESTS



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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Figure A-12

Strataprobe Boring Log SB-19

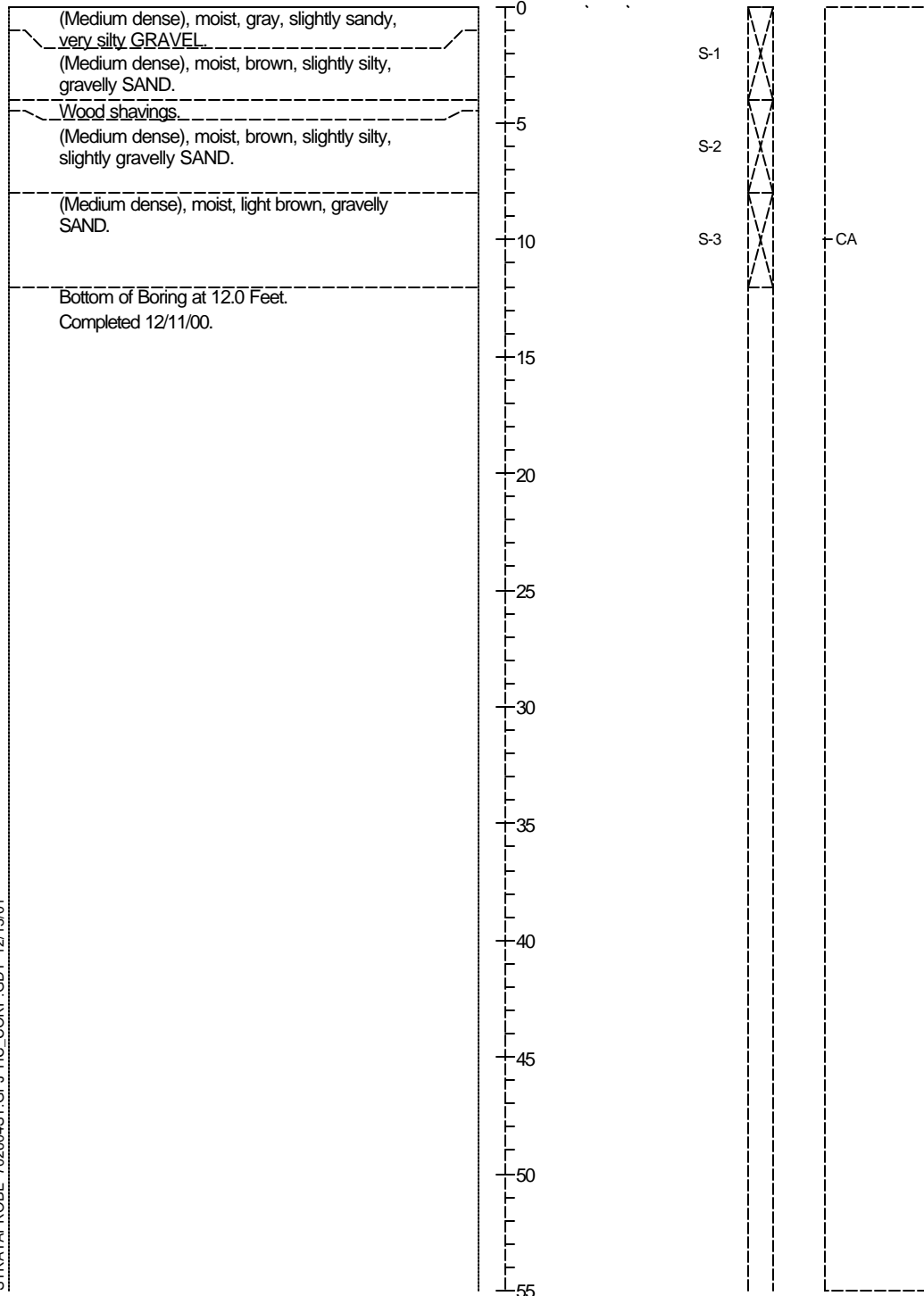
Soil Descriptions

Approx. Ground Surface Elevation in Feet: 102

Depth
in Feet

Sample

LAB
TESTS



STRATAPROBE 702604ST.GPJ HC_CORP.GDT 12/13/01



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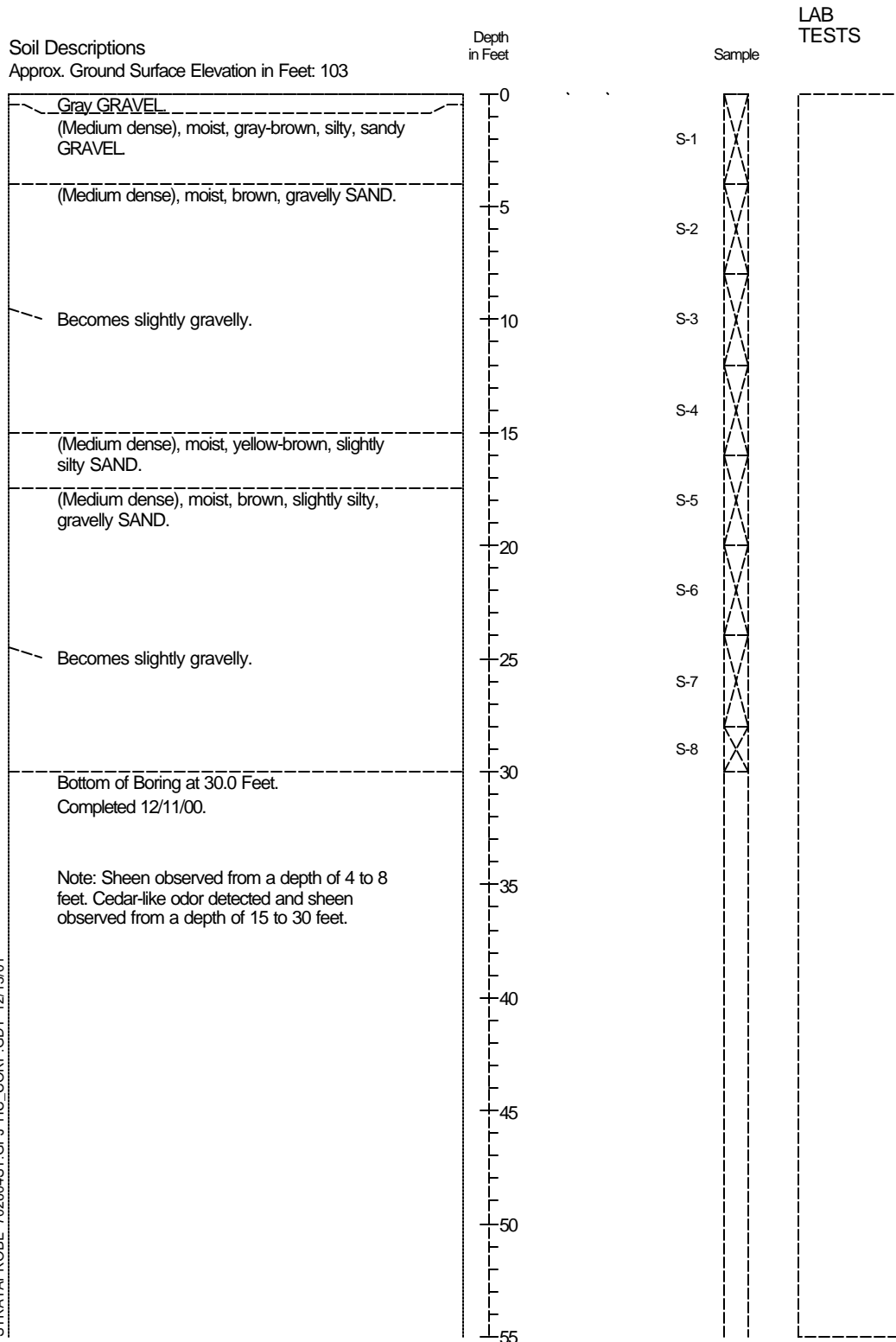
J-7026-04

12/00

Figure A-13

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

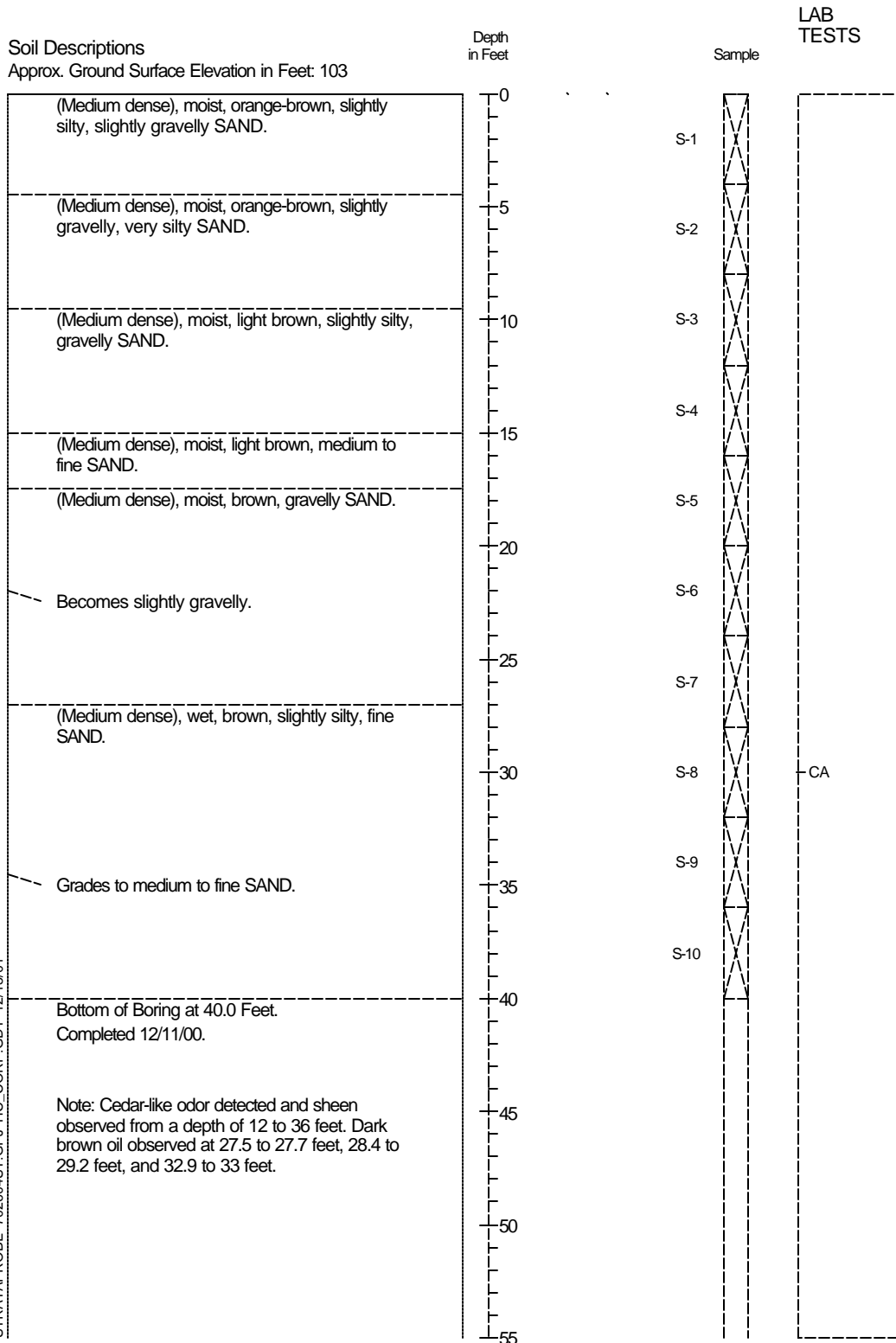
Strataprobe Boring Log SB-20



STRATAPROBE 702604ST.GPJ HC_CORP.GDT 12/13/01

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-21



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

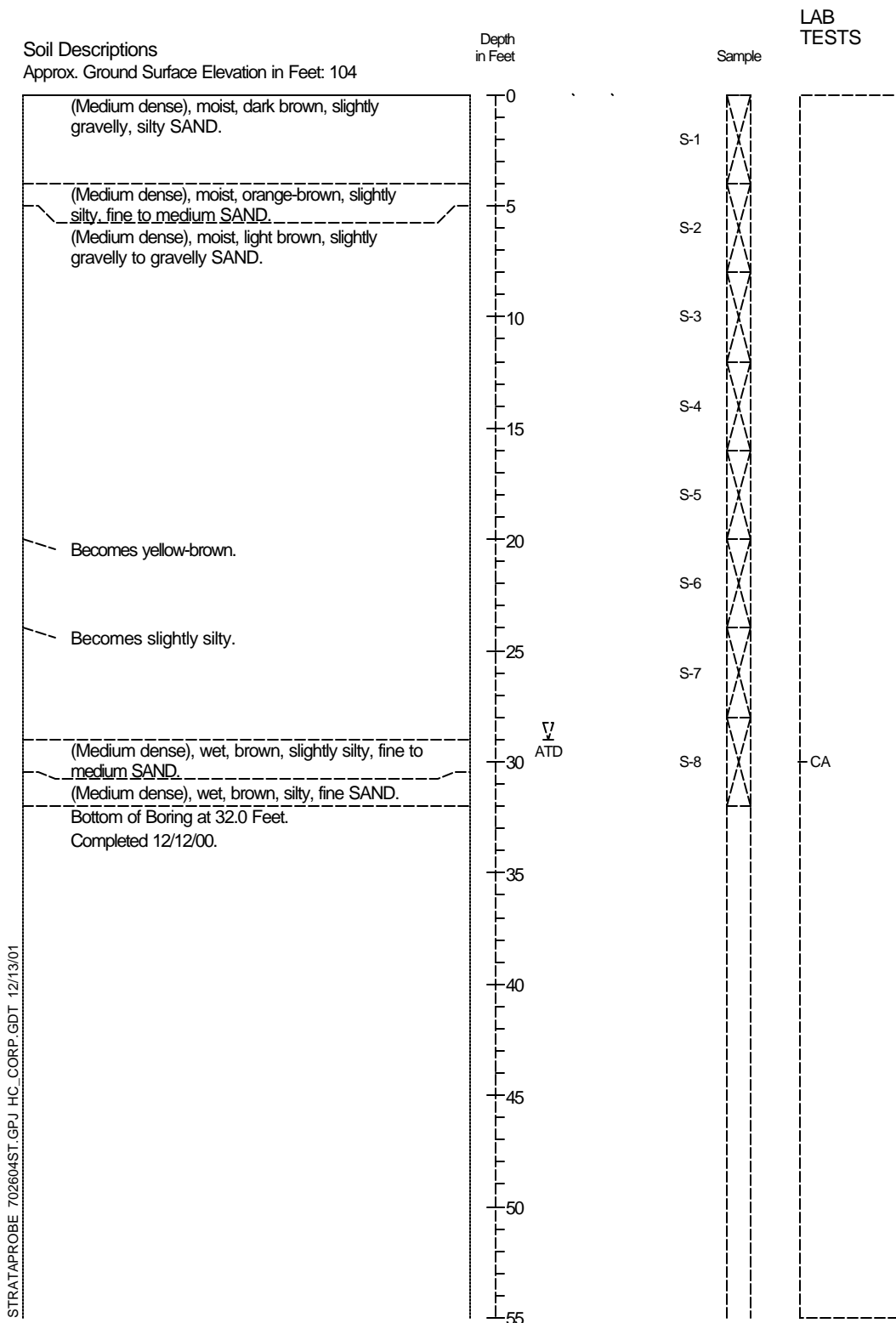


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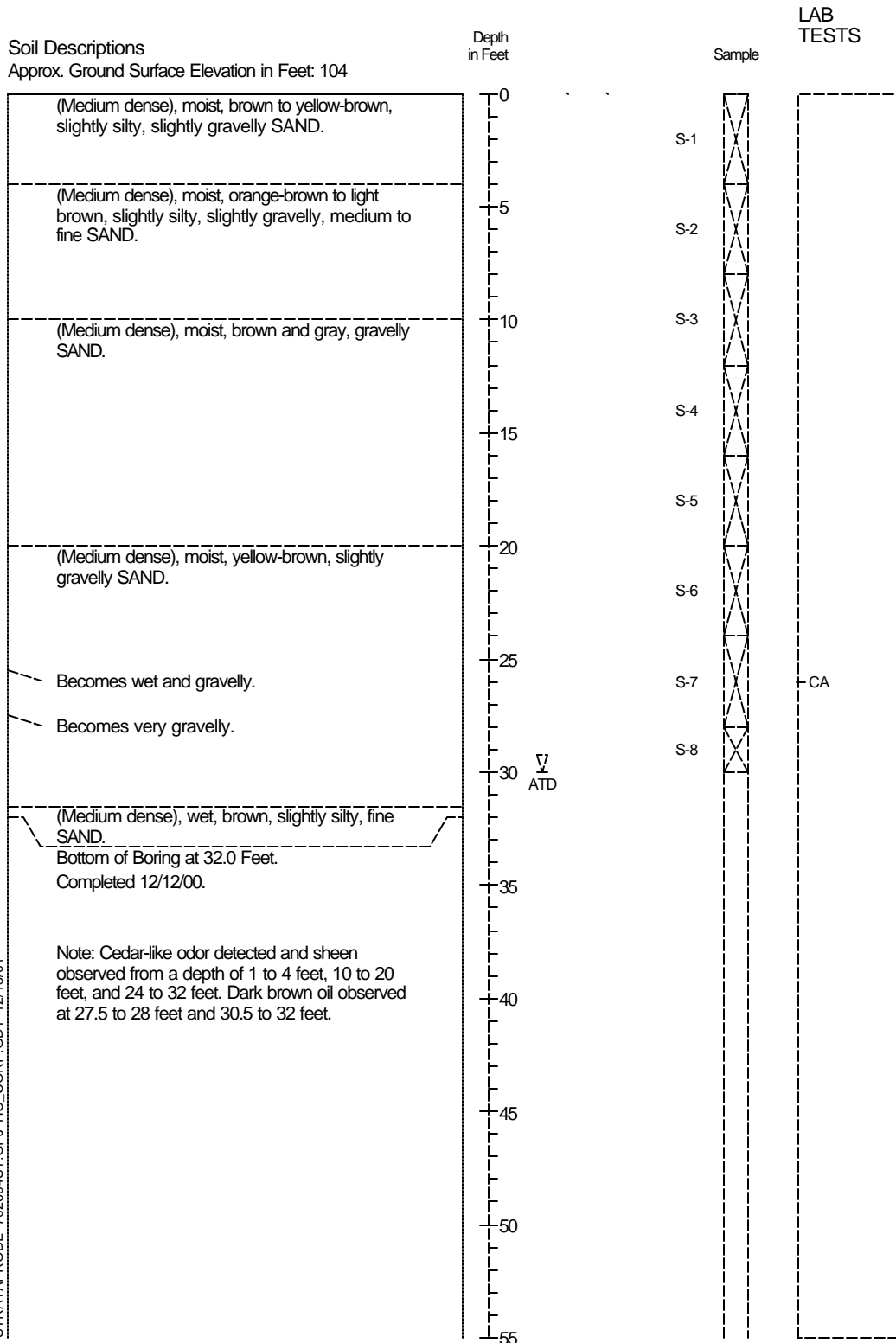
Figure A-15

Strataprobe Boring Log SB-22



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-23



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

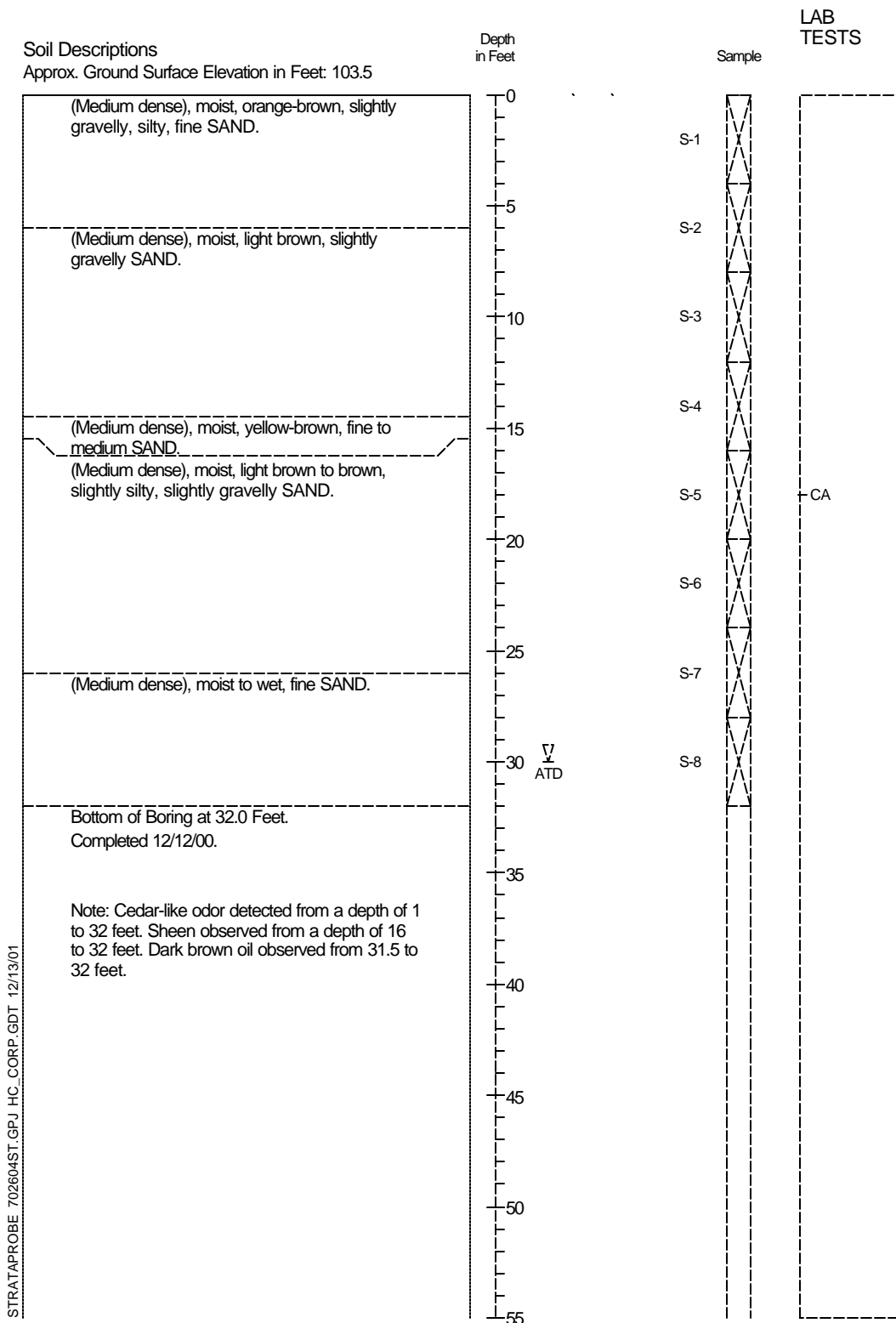


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12/00

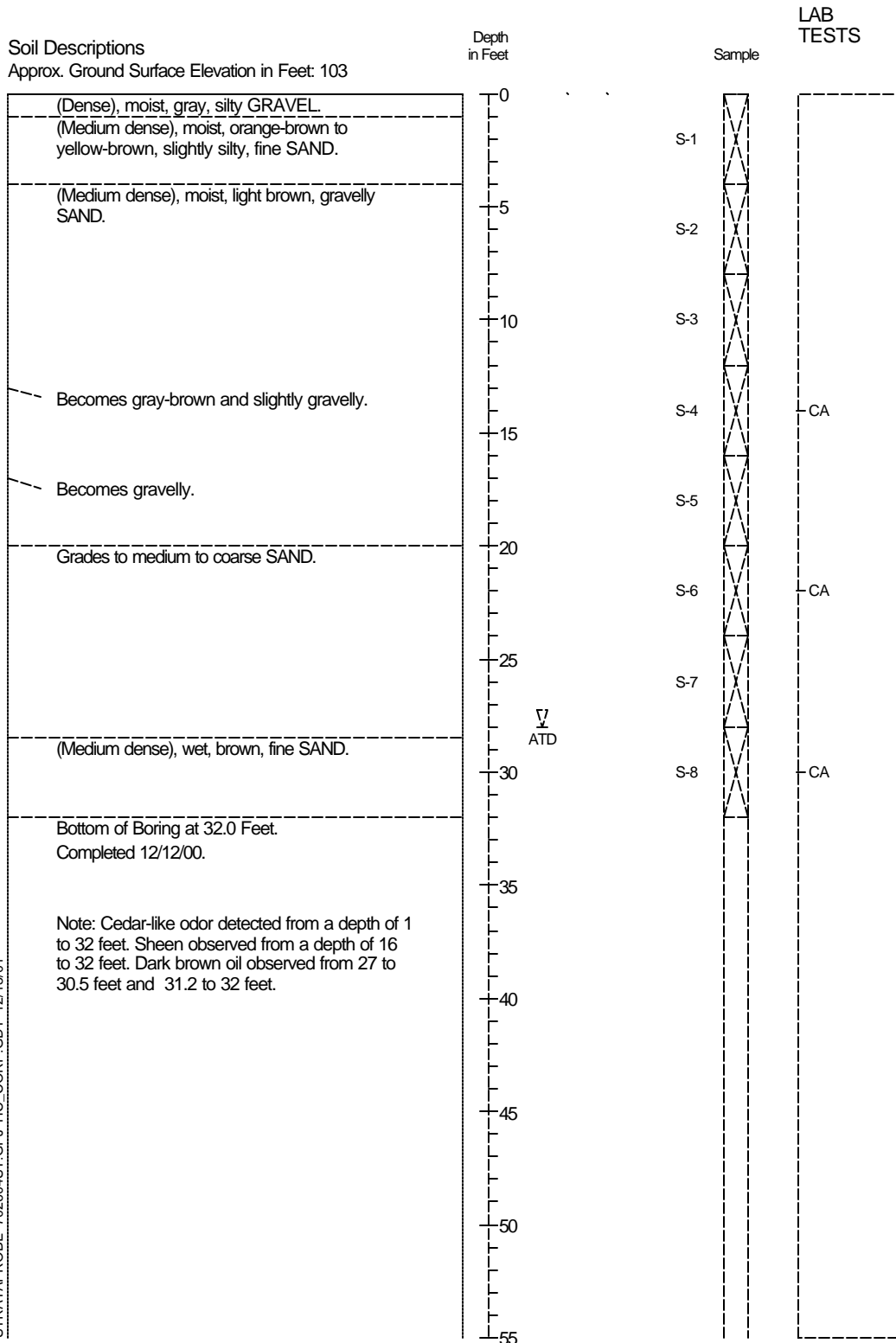
Figure A-17

Strataprobe Boring Log SB-24



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-25



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-26

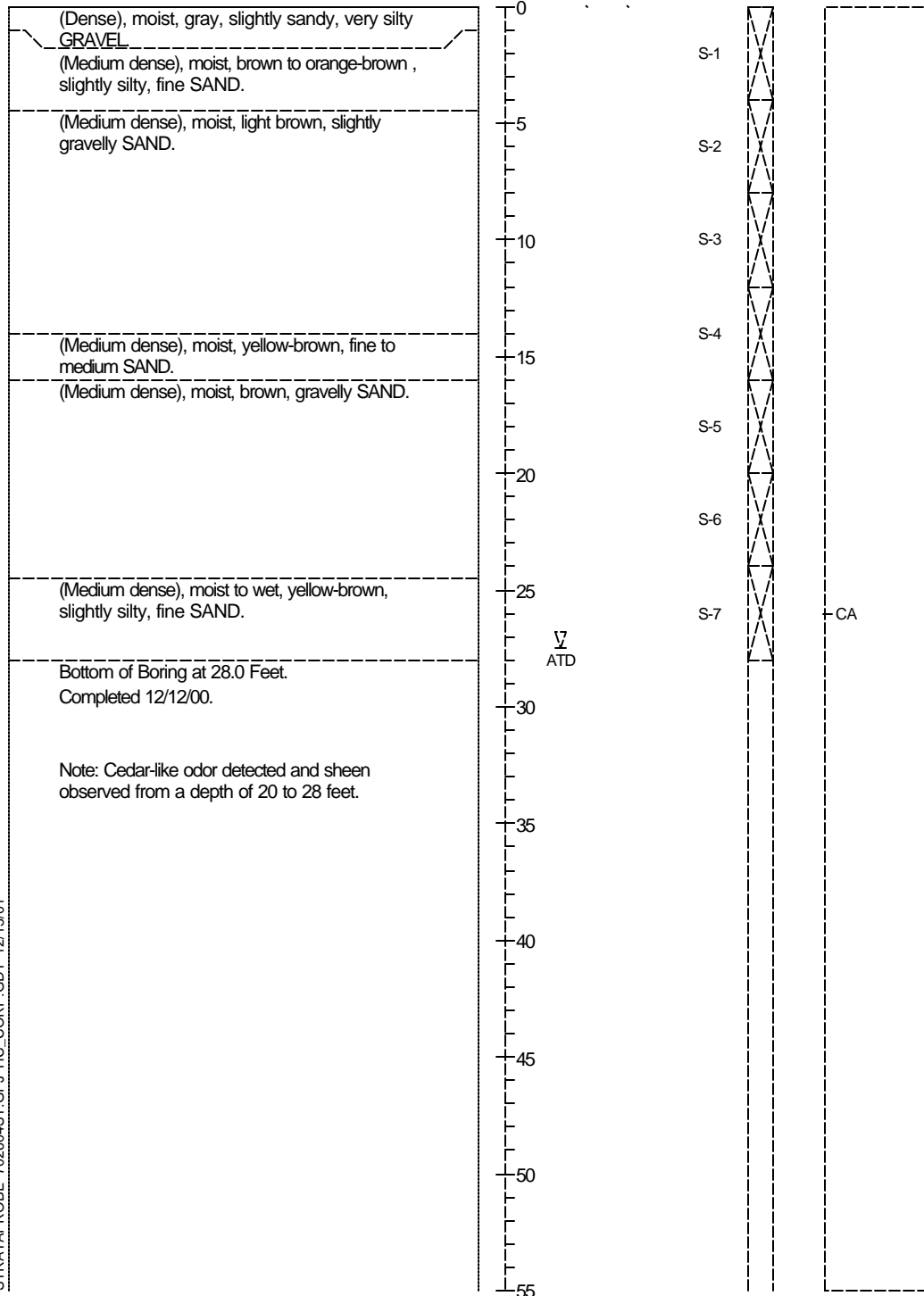
Soil Descriptions

Approx. Ground Surface Elevation in Feet: 103

Depth
in Feet

Sample

LAB
TESTS



STRATAPROBE 702604ST.GPJ HC_CORP.GDT 12/13/01



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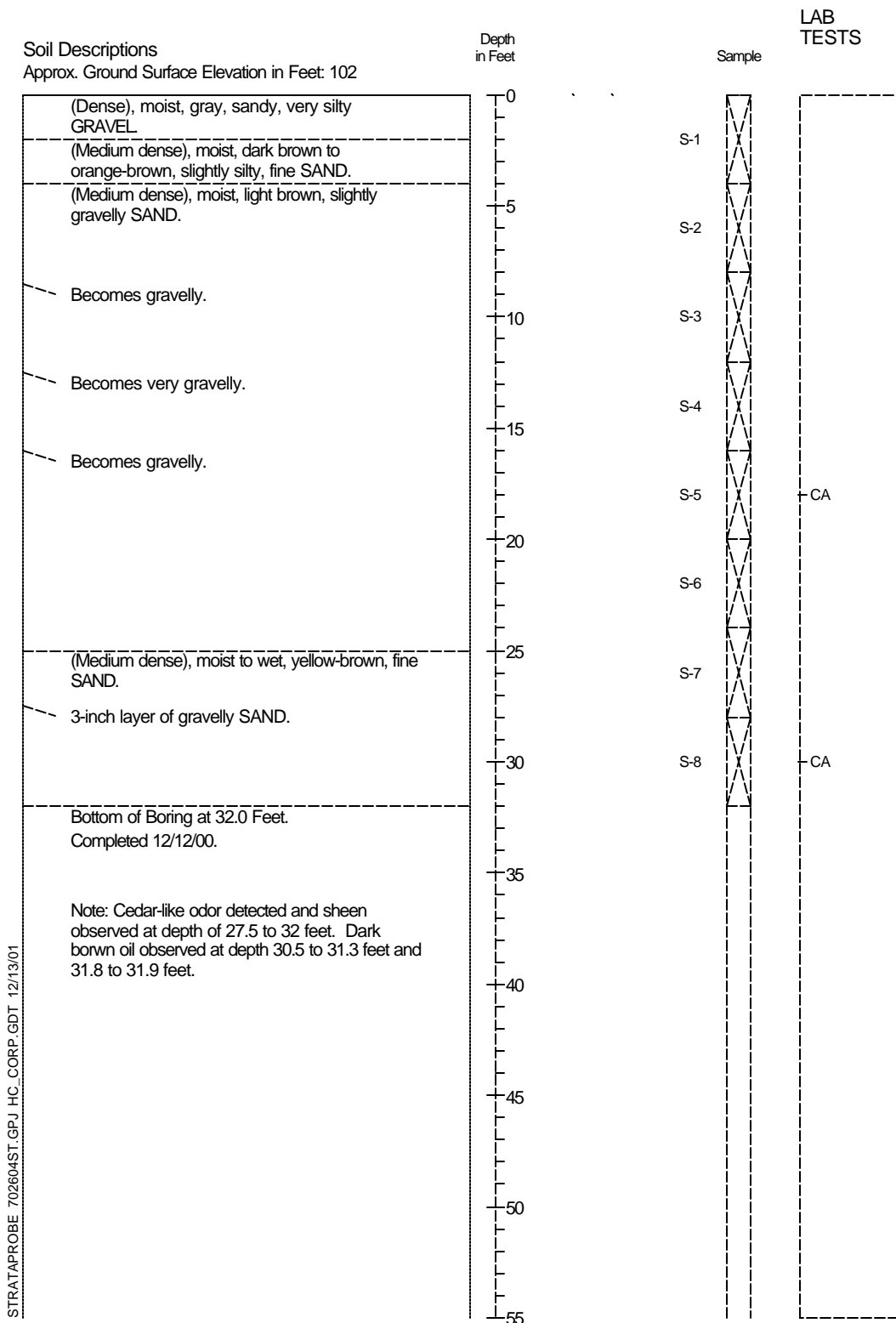
J-7026-04

12/00

Figure A-20

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-27



STRATAPROBE 702604ST.GPJ HC_CORP.GDT 12/13/01

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



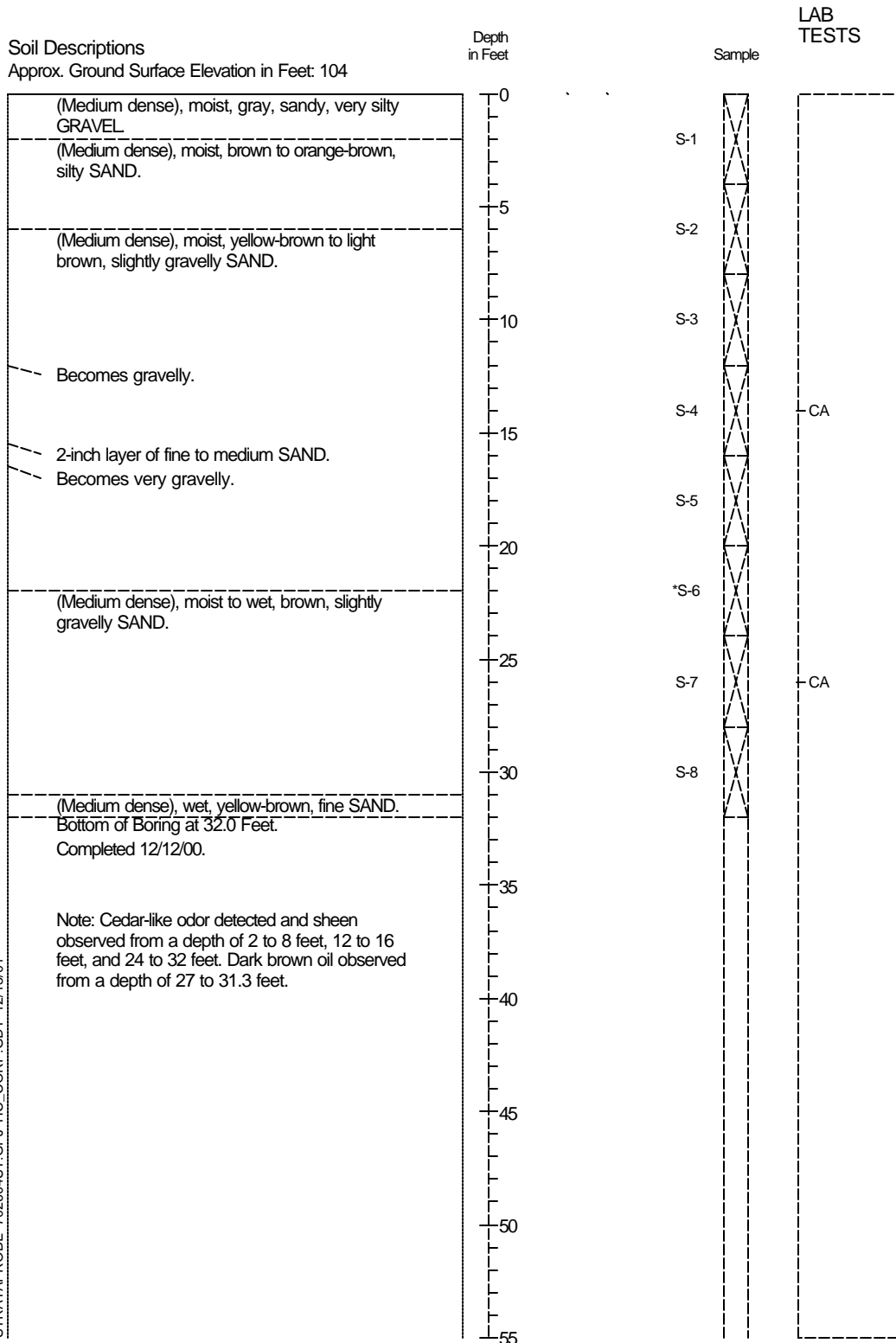
HARTCROWSER

J-7026-04

12/00

Figure A-21

Strataprobe Boring Log SB-28



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

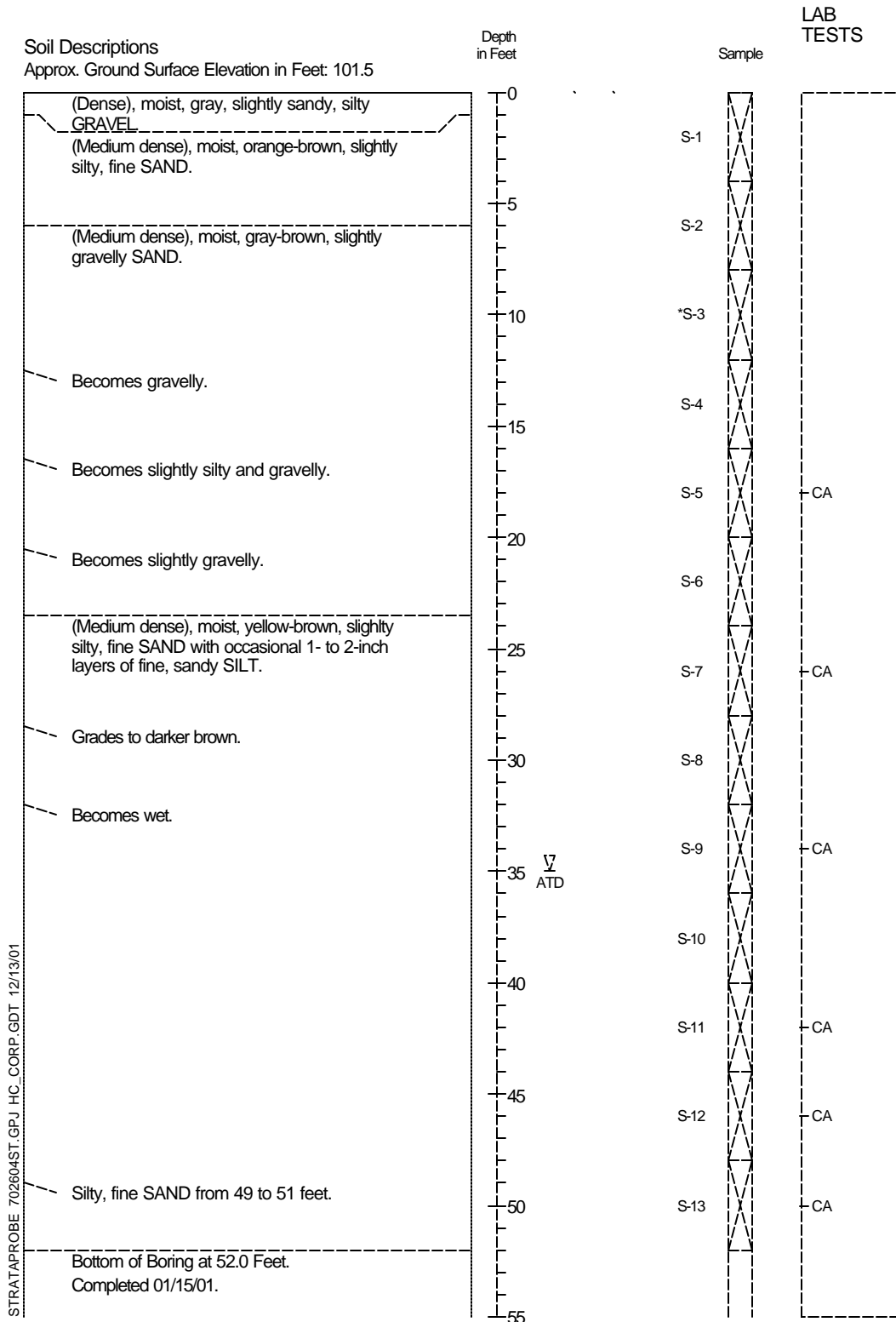


J-7026-04

12/00

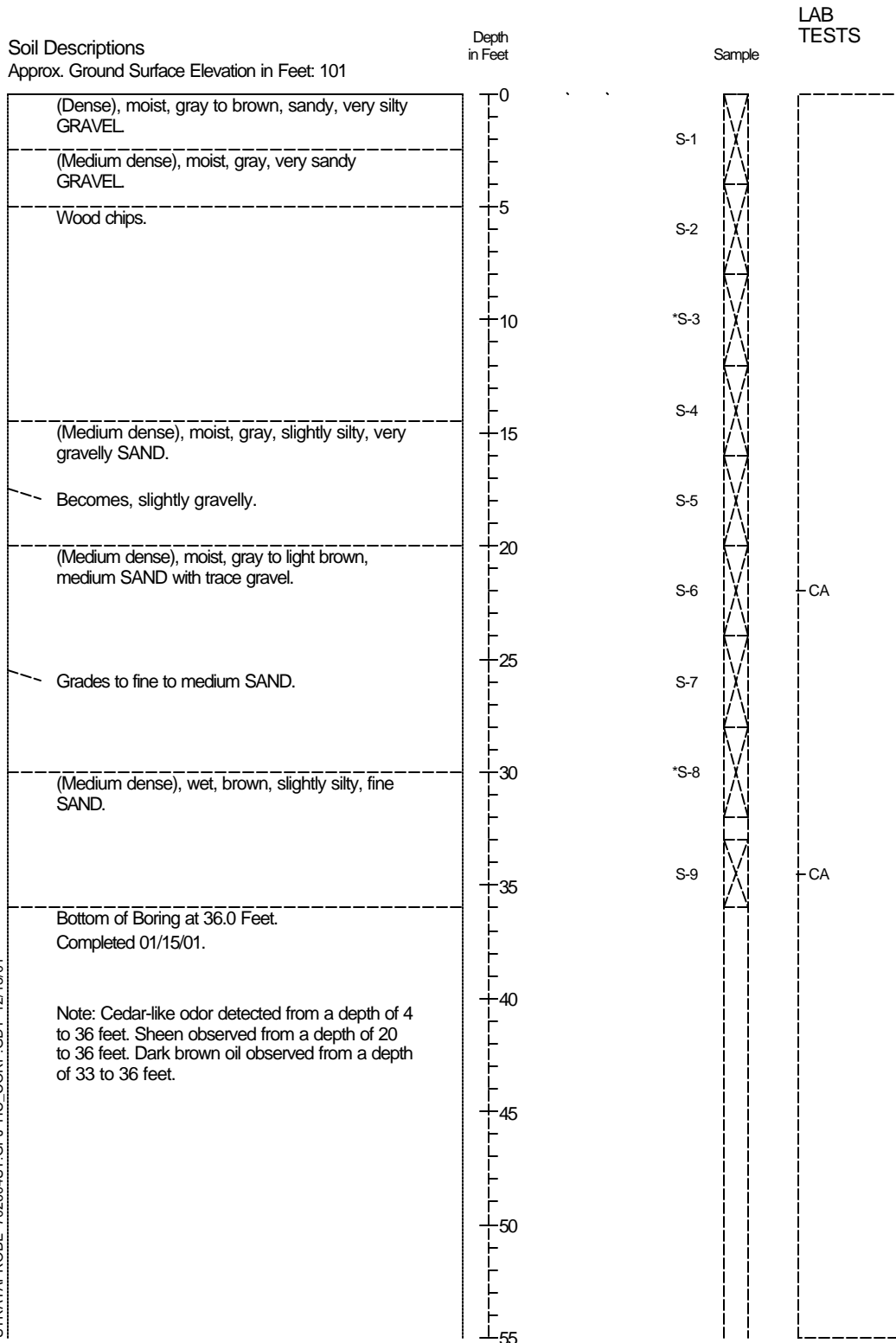
Figure A-22

Strataprobe Boring Log SB-29



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-30



STRATAPROBE 702604ST.GPJ HC_CORP.GDT 12/13/01



HARTCROWSER

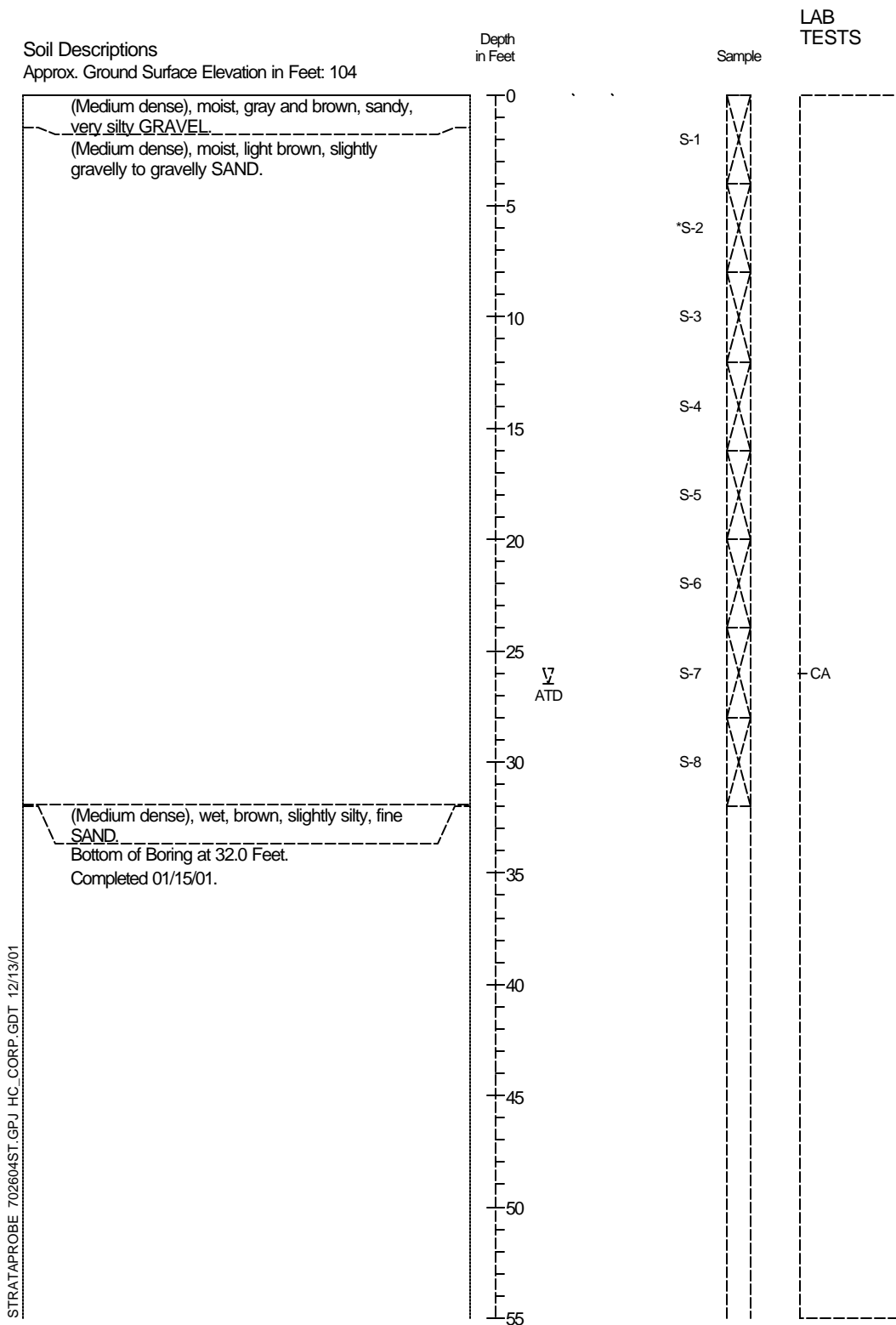
J-7026-04

01/01

Figure A-24

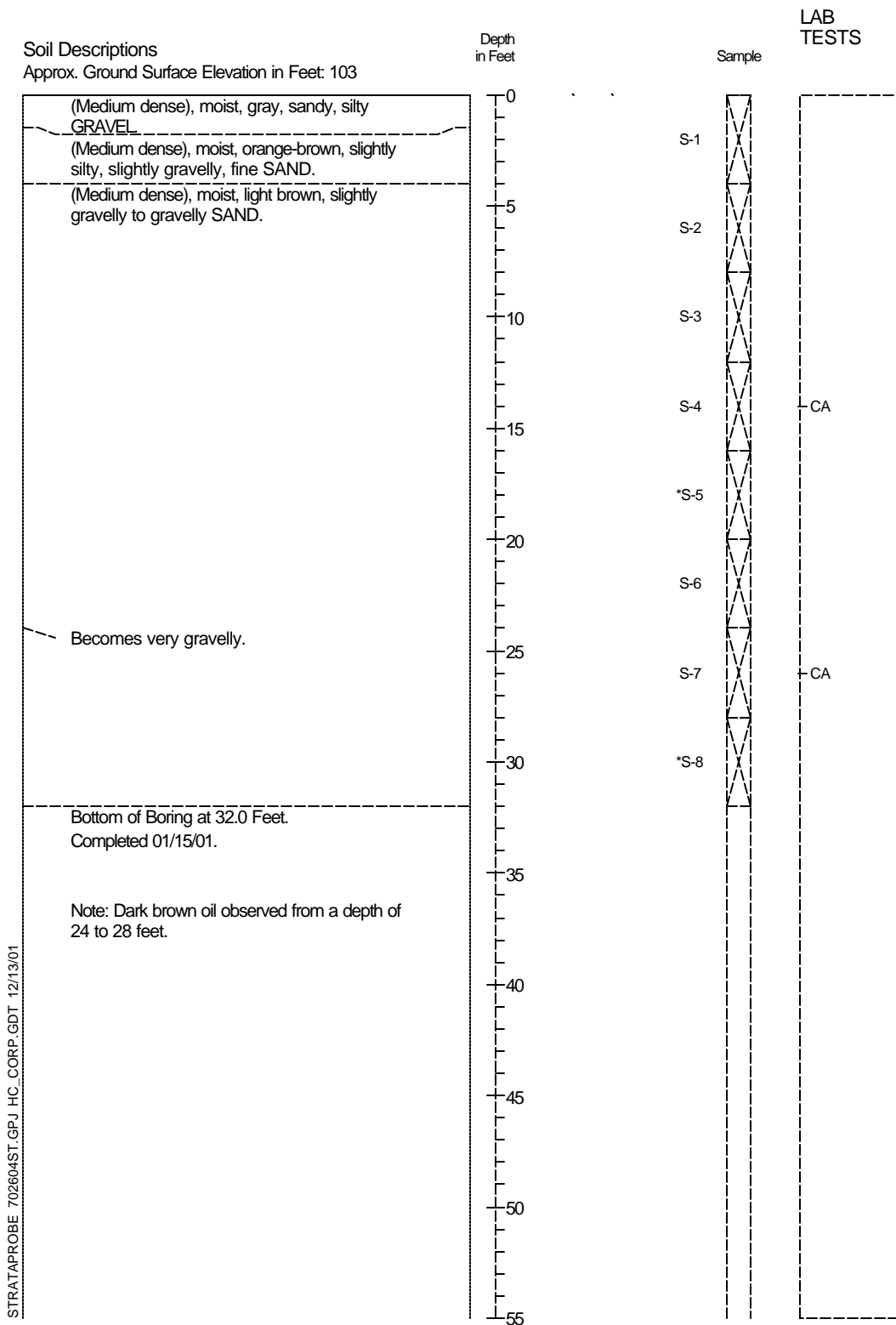
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-31



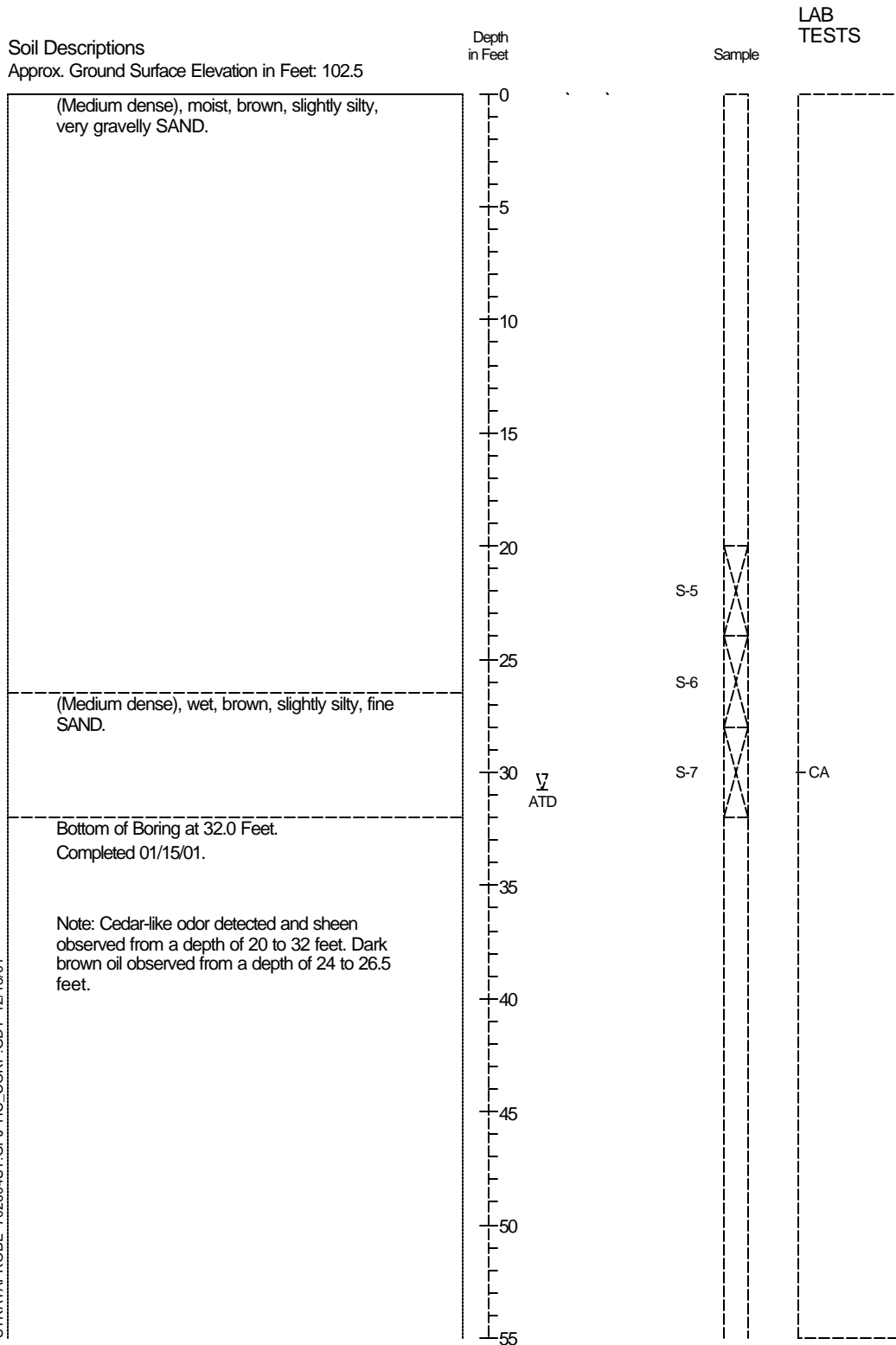
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-32



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Strataprobe Boring Log SB-33



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

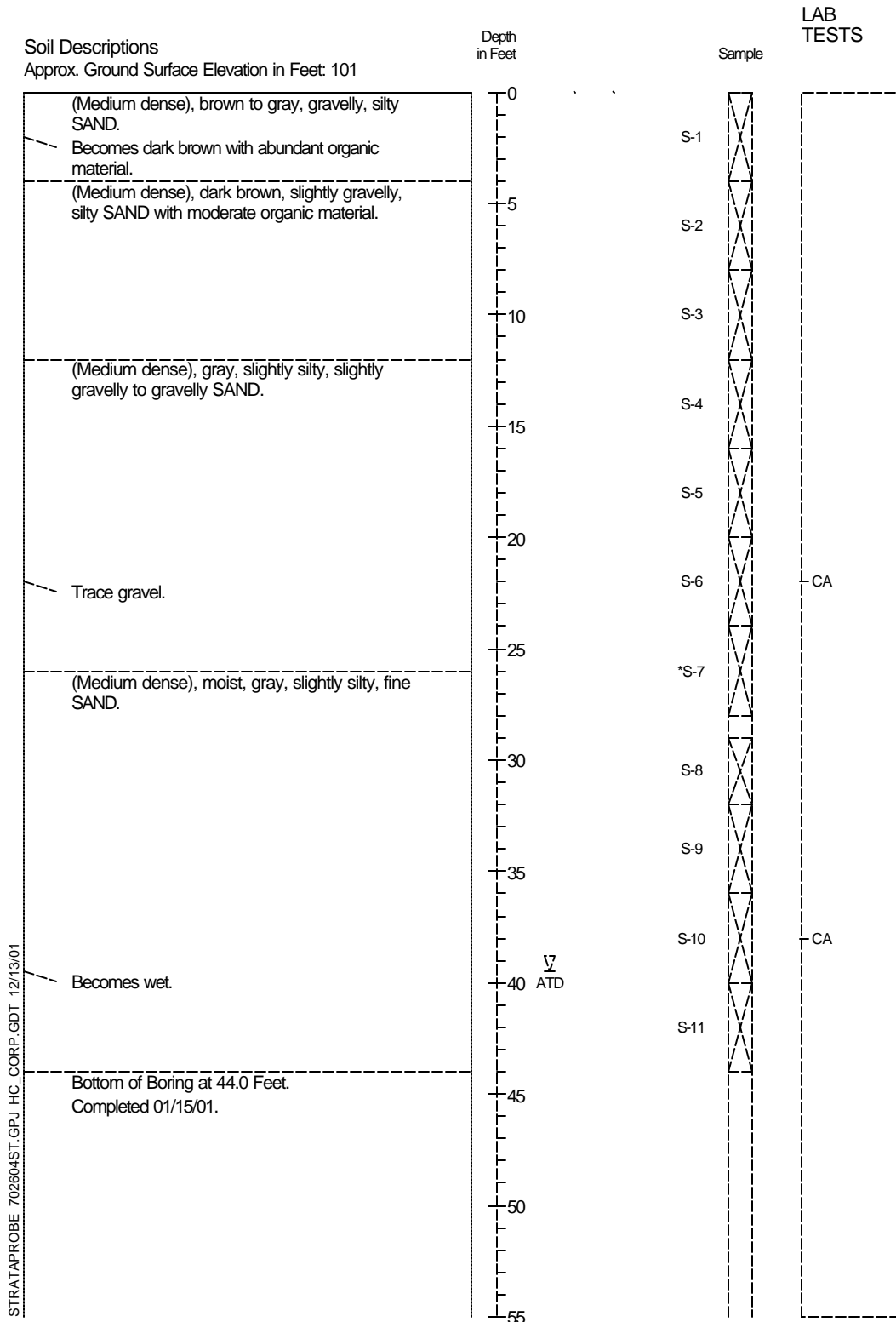


J-7026-04

01/01

Figure A-27

Strataprobe Boring Log SB-34



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Project: Baxter Arlington Arlington, Washington		Log of Monitoring Well No. MW-1	
Date Started: 8/23/90	Total Depth: 49.5 ft	Casing Elev: 100.0 ft	Depth to GW: 28 ft
Date Completed: 8/24/90	Perforation: 0.01 Slot Sch 40 PVC	From: 23.0 ft To: 43.0 ft	
Logged By: D. Walker	Pack: #10/20 Colorado Silica Sand	From: 20.0 ft To: 43.0 ft	
Drilling Co: Soil Sampling Service	Driller: Ketvirtis	Seal: Bentonite Pellets	From: 17.0 ft To: 20.0 ft
Drilling Method: 6" ID Hollow Stem Auger	Bentonite Slurry		From: 17.0 ft To: surf.
Drilling Equipment: Mobile Drill B-61	Casing: 4" Sch. 40 PVC	Sampler: 3" OD Split-Spoon	

Depth (feet)	Sample	blow count	LITHOLOGIC DESCRIPTION	Lith-ology	Mon. Well Installation	REMARKS
5		8 7 8	med. dense moist, gray sandy gravel (GP), trace of silt	GP		OVA = 0 ppm
10		8 16 17	light gray at 9 ft.			OVA = 0 ppm
15		18 20 20				OVA = 1 ppm
20		13 15 14				OVA = 1 ppm
25		8 13 19	CA	GP		OVA = 2 ppm
		8 9 8	medium dense, saturated, gray fine sand (SP-SM), trace of silt; silty sand (SM) at 29 ft.	SP-SM		OVA = 0 ppm

Depth (feet)	Sample	blow count	LITHOLOGIC DESCRIPTION	Lithology	Mon. Well Installation	REMARKS
30						
	X	8 13 19	medium dense, saturated, gray fine sand (SP), trace of silt	SP		OVA = 0 ppm
35						
	X	8 11 14				OVA = 0 ppm
40						
	X	9 10 14				OVA = 0 ppm
45						
	X	9 12 17		SP	SLOUGH	OVA = 0 ppm
50			Bottom of boring at 49.5 feet.			
55						

Project: Baxter Arlington Arlington, Washington		Log of Monitoring Well No. MW-2		
Date Started: 8/22/90		Total Depth: 49.5 ft.	Casing Elev: 98.5 ft.	Depth to GW: 43 ft.
Date Completed: 8/23/90		Perforation: 0.01 Slot Sch 40 PVC	From: 27.5 ft To: 47.5 ft	
Logged By: D. Walker		Pack: #10/20 Colorado Silica Sand	From: 49.5 ft To: 24.5 ft	
Drilling Co: Soil Sampling Service	Driller: Ketvirtis	Seal: Bentonite Pellets	From: 24.5 ft To: 21.5 ft	
Drilling Method: 6" ID Hollow Stem Auger		Bentonite Slurry	From: 21.5 ft To: surf.	
Drilling Equipment: Mobile Drill B-61		Casing: 4" Sch. 40 PVC		
		Sampler: 3" OD Split-Spoon		

Depth (feet)	Sample	blow count	LITHOLOGIC DESCRIPTION	Lithology	Mon. Well Installation	REMARKS
5	X	9 8 9	medium dense, moist, gray gravelly sand (SP)	SP		OVA = 0 ppm
10	X	8 15 21	dense, moist, gray sandy gravel (GP), gravel to 2"			OVA = 0 ppm
15	X	11 18 24				OVA = 0 ppm
20	X	25 15 25	dense, moist, coarse to medium gray sand (SP), trace of gravel	GP		OVA = 0 ppm
25	X	11 17 18	medium to fine sand	SP		OVA = 0 ppm
	X	22 45 30	very dense, moist, sandy gravel (GP), gravel to 2-1/2"			OVA = 0 ppm

Depth (feet)	Sample	blow count	LITHOLOGIC DESCRIPTION	Lithology	Mon. Well Installation	REMARKS
30				GP		
35	X	11 15 17	dense, moist, gray fine sand (SP-SM)	SP-SM		OVA = 0 ppm
40	X	11 19 25				OVA = 0 ppm
45	X	9 16 21	saturated, some gravel			OVA = 0 ppm
50	X	8 15 19	trace of gravel	SP-SM		OVA = 0 ppm
50			Bottom of boring at 49.5 feet.			
55						

Project: Baxter Arlington Arlington, Washington		Log of Monitoring Well No. MW-3 100.89 ft	
Date Started: 8/24/90	Total Depth: 50.0 ft	Casing Elev: 99.2 ft	Depth to GW: 38 ft.
Date Completed: 8/27/90	Perforation: 0.01 Slot Sch 40 PVC	From: 29.5 ft To: 49.5 ft	
Logged By: D. Walker	Pack: #10/20 Colorado Silica Sand	From: 26.0 ft To: 49.5 ft	
Drilling Co: Soil Sampling Service	Driller: Katvirtis	Seal: Bentonite Pellets	From: 26.0 ft To: 23.0 ft
Drilling Method: 6" ID Hollow Stem Auger	Bentonite Slurry	From: 23.0 ft To: surf.	
Drilling Equipment: Mobile Drill B-61	Casing: 4" Sch. 40 PVC	Sampler: 3" OD Split-Spoon	

Depth (feet)	Sample	blow count	LITHOLOGIC DESCRIPTION	Lithology	Mon. Well Installation	REMARKS
5	X	9 7 7	medium dense, dry, gray sandy gravel (GP), trace of silt	GP		OVA = 0 ppm
10	X	8 6 7				OVA = 0 ppm
15	X	6 10 8	moist			OVA = 0.5 ppm
20	X	6 10 13		GP		OVA = 0 ppm
25	X	5 11 16	medium dense, moist, gray fine sand (SP/SM), becomes slightly silty very fine sand (SP/SM) below 24 ft.	SP-SM		OVA = 0 ppm
	X	8 12 16	medium dense, moist, gray fine sand (SP/SM), trace of silt, slightly coarser below 29 ft.			OVA = 0 ppm

Depth (feet)	Sample	blow count	LITHOLOGIC DESCRIPTION	Lithology	Mon. Well Installation	REMARKS
35	X	11 19 19	dense, becomes fine to medium sand below 33.5 ft.	SP-SM		
40	X	8 8 10	medium dense, saturated, silty fine sand (SM) below 38.0 ft.			
	X	14 24 32	very dense, saturated sandy gravel (GP), coarse to fine sand	GP		
50	X	10 31 28				
55			Bottom of boring at 50.0 feet.			

Project: BAXTER
 Project Location: ARLINGTON
 Project Number: 90C0456A/6000

Log of Boring MW-4

Sheet 1 of 2

Date(s) Drilled	8/26/94	Logged By	G. DAVIS	Checked By	M. OTTEN
Drilling Method	HOLLOW STEM AUGER	Top of PVC Elevation (feet)	98.17	Total Depth Drilled (feet)	40.0
Drill Rig Type	B-61 HSA	Drilled By	TACOMA PUMP AND DRILLING, INC.	Hammer Weight/ Drop (lbs/in.)	140#/30"
Groundwater Level (ft bgs)	21	Sampler Type	SPLIT SPOON	Approx. Surface Elevation (feet)	NOT SURVEYED
Diameter of Hole (inches)	8	Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 SILICAL SAND	Type/Thickness of Seal(s)	CONCRETE 0-2 FT BENTONITE 2-27 FT	Screen Perforation	0.010" PVC SLOT
Comments	UP GRADIENT WELL				

Depth, feet	Elevation, feet	SAMPLES			MATERIAL DESCRIPTION	Well Completion Log	SAMPLES			REMARKS
		Type	Number	Blows/6in			Recovery %		Rate (l/min)	
0					Surface: Loose, silty fine SAND; red/brown, dry					
					1': Loose silty fine SAND with little fine to medium gravel; red/brown, slightly damp					
5		X	1		7': Same as above; gravel increasing					
		X	2		9': Dense fine sandy fine GRAVEL; gray, dry					
10										
		X	3		14': Loose fine sandy SILT and silty SAND with trace fine gravel; gray, dry					
15					15': Loose to medium dense fine sandy fine GRAVEL; gray, dry					
20		X	4		19.5': Loose fine sandy SILT and silty fine SAND; gray, dry					
					20': Dense fine to coarse sandy silty coarse GRAVEL; gray, moist to wet					
										Final water level at 21'

Project: BAXTER
 Project Location: ARLINGTON
 Project Number: 90C0456A/6000

Log of Boring MW-4

Sheet 2 of 2

Depth, feet	Elevation, feet	SAMPLES		Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	SAMPLES			REMARKS
		Type	Number				Recovery %		Rate (l/min)	
25		X	5							
30		X	6		29': Very loose silty fine to coarse gravelly, fine to coarse SAND; gray, very wet to bottom of boring					
35		X	7							
40									1150	
45					Boring terminated at 40 ft below ground surface					
50										

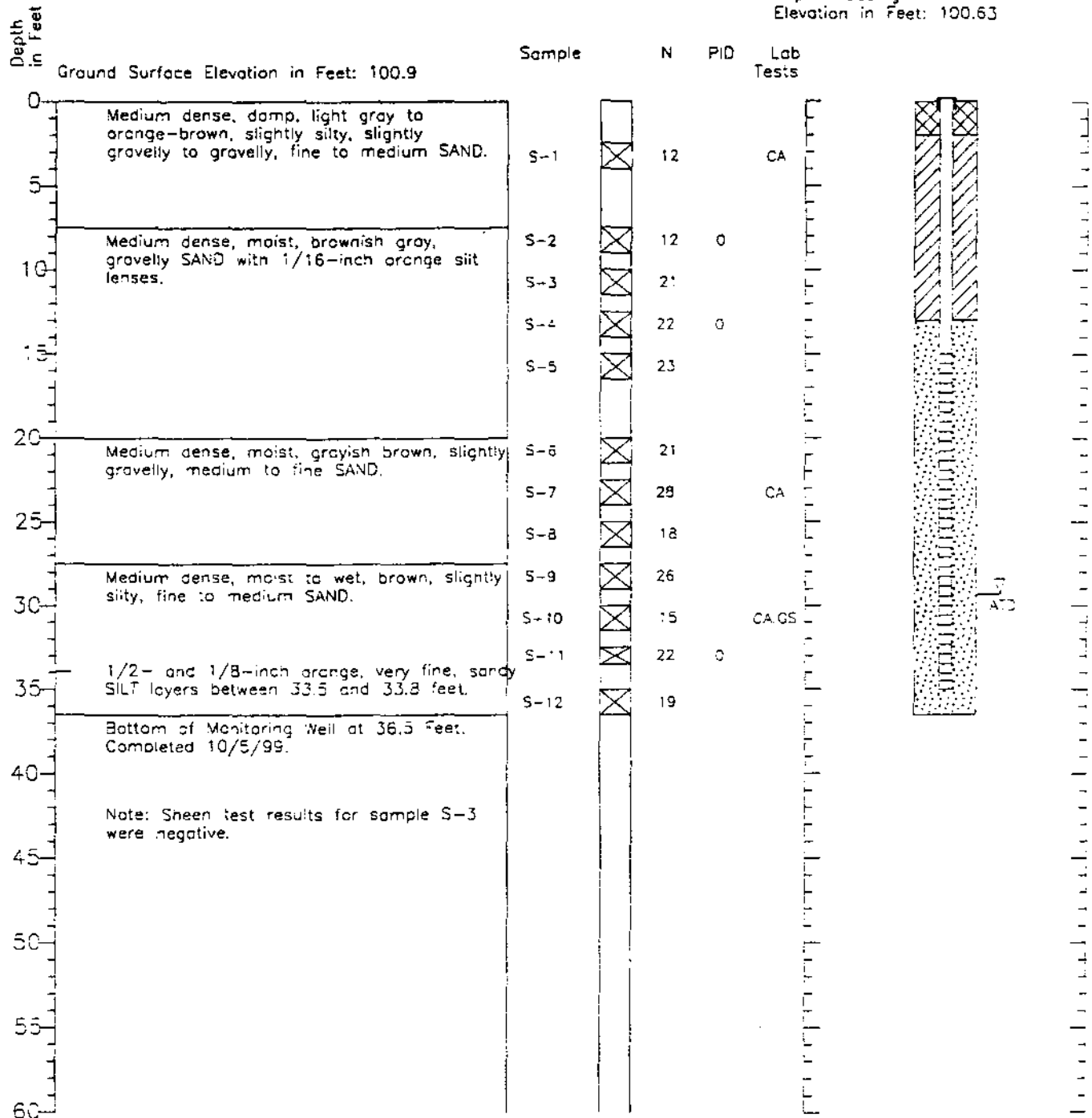


Boring Log and Construction Data for Monitoring Well HC-MW-5

Geologic Log

Monitoring Well Design

Top of Casing
Elevation in Feet: 100.63



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER

J-7026-02 10/99

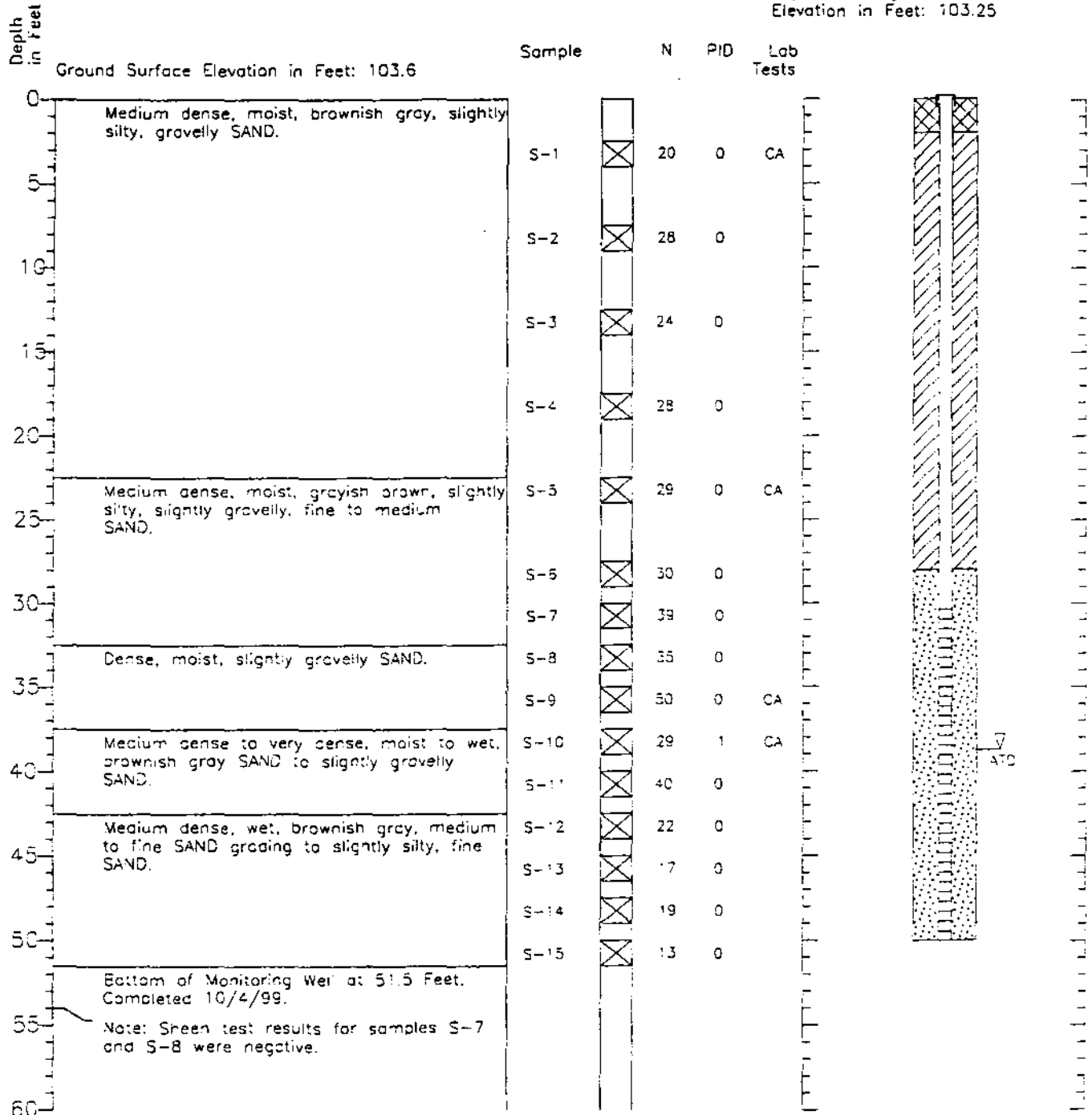
Figure A-9

Boring Log and Construction Data for Monitoring Well HC-MW-6

Geologic Log

Monitoring Well Design

Top of Casing
Elevation in Feet: 103.25



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER

J-7026-02 10/99

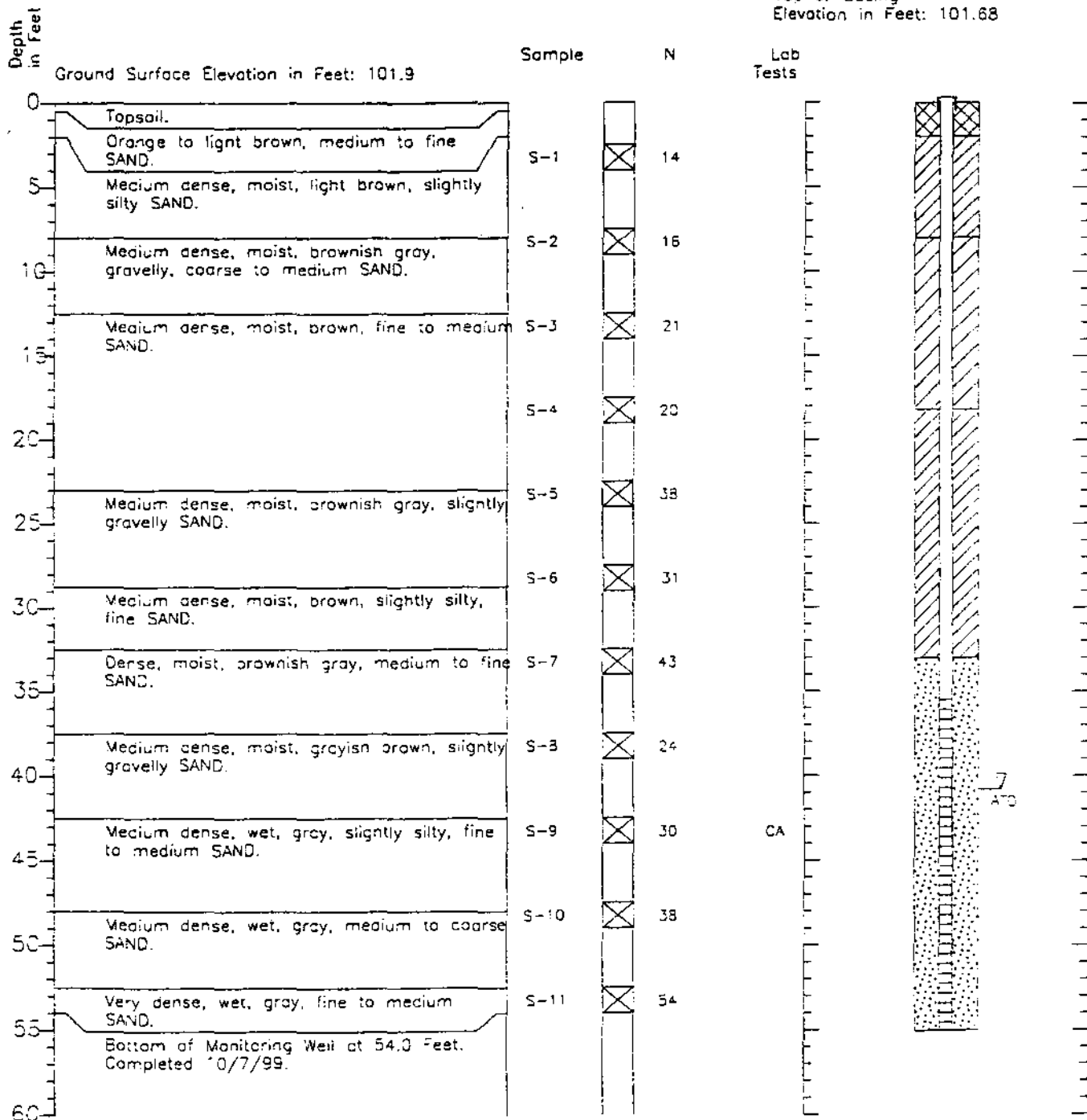
Figure A-10

Boring Log and Construction Data for Monitoring Well HC-MW-7

Geologic Log

Monitoring Well Design

Top of Casing
Elevation in Feet: 101.68



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER

J-7026-02 10/99

Figure A-11

LOG OF EXPLORATORY BORING

PROJECT NAME J.H. Baxter South Woodwaste Landfill
 LOCATION See Figure 1
 DRILLED BY Pacific Testing Lab
 DRILL METHOD H.S. Anger
 LOGGED BY G.S. Mack

BORING NO. BXS-1
 PAGE 1 OF 2
 SURFACE ELEV. 99.60
 TOTAL DEPTH 49.00
 DATE COMPLETE 7/11/88

SAMPLE NUMBER	SAMPLE TYPE	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	WELL DETAILS	LITHO- GRAPHIC COLUMN	DESCRIPTION
1	SPT		0				0 - 1 foot: SOIL
2	SPT		1				1 - 4 feet: SAND; with gravel, dark yellowish brown, sand is fine to medium, gravel is subangular to subrounded, slightly damp. (SW)
3	SPT		5				4 - 14 feet: GRAVELLY SAND; mottled yellowish gray to olive gray, sand is fine to coarse, gravel is subround to subangular, damp. (SW)
4	SPT		10				
5	SPT		15				14 - 49 feet: SAND; medium olive gray, sand is fine to medium, thinly interbedded silt. Trace of gravel at 38 feet, wet at 37 feet. (SP)
6	SPT		20				
7	SPT		25				
8	SPT		30				
			35				
			40				

REMARKS

1) Measuring point elevation: 99.60. 2) SPT = standard split spoon sampler. See end of DESCRIPTION column for "ADDITIONAL REMARKS".



LOG OF EXPLORATORY BORING

PROJECT NAME J.H. Baxter South Woodwaste Landfill
 LOCATION See Figure 1
 DRILLED BY Pacific Testing Lab
 DRILL METHOD H.S. Anger
 LOGGED BY G.S. Mack

BORING NO. BXS-1
 PAGE 2 OF 2
 SURFACE ELEV. \pm
 TOTAL DEPTH 49.00
 DATE COMPLETE 7/11/88

	SAMPLE NUMBER	SAMPLE TYPE	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	WELL DETAILS	LITHO- GRAPHIC COLUMN	DESCRIPTION
	9	SPT		45				(continued) 14 - 49 feet: See previous page for lithologic description.
	10	SPT		50				Boring terminated at 49 feet.
				55				ADDITIONAL REMARKS: Well Construction
				60				Details - 0-39 feet, 2 inch schedule 40, PVC,
				65				blank riser pipe; 39-49 feet, 2 inch schedule
				70				40, PVC, 0.020 inch slotted. Backfill - 0-1
				75				foot, concrete; 1-4 feet, dry bentonite chips
				80				and heave; 4-34 feet, bentonite slurry; 34-37
								feet, natural heave; 37-49 feet, sand, Colorado
								Silica, 10-20.

REMARKS



LOG OF EXPLORATORY BORING

PROJECT NAME J.H. Baxter South Woodwaste Landfill
 LOCATION See Figure 1
 DRILLED BY Pacific Testing Lab
 DRILL METHOD H.S. Anger
 LOGGED BY G.S. Mack

BORING NO. BXS-2
 PAGE 1 OF 2
 SURFACE ELEV. 14
 TOTAL DEPTH 54.00
 DATE COMPLETE 7/6/88

SAMPLE NUMBER	SAMPLE TYPE	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	WELL DETAILS	LITHO-GRAPHIC COLUMN	DESCRIPTION
							0 - 4 feet: FILL; wood chips, moderate to dark yellowish brown.
1	SPT		5				4 - 14 feet: SAND and GRAVEL; mottled light to olive gray, sand fine to coarse, gravel subangular to subrounded, damp. (SW/GW)
2	SPT		10				
3	SPT		15				14 - 54 feet: SAND; light olive gray, sand is fine with some medium, some silt as thinly bedded silt, sand layers, moist. (SW/SM)
4	SPT		20				
5	SPT		25				
6	SPT		30				
7	SPT		35				
			40				

REMARKS

1) Measuring point elevation: 99.81. 2) SPT = standard split spoon sampler. See end of DESCRIPTION column for "ADDITIONAL REMARKS".



LOG OF EXPLORATORY BORING

PROJECT NAME J.H. Baxter South Woodwaste Landfill
 LOCATION See Figure 1
 DRILLED BY Pacific Testing Lab
 DRILL METHOD H.S. Anger
 LOGGED BY G.S. Mack

BORING NO. BXS-2
 PAGE 2 OF 2
 SURFACE ELEV. ±
 TOTAL DEPTH 54.00
 DATE COMPLETE 7/6/88

	SAMPLE NUMBER	SAMPLE TYPE	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	WELL DETAILS	LITHO- GRAPHIC COLUMN	DESCRIPTION
	8	SPT		45				(continued) 14 - 54 feet: SAND (SW/SM); see previous page for lithologic description.
	9	SPT		50				
	10	SPT		55				
				60				Boring terminated at 54 feet. ADDITIONAL REMARKS: Well Construction Details - 0-42 feet, 2 inch schedule 40, PVC, blank riser pipe; 42-52 feet, 2 inch schedule 40, PVC, 0.020 inch slotted. Backfill - 0-1 foot, concrete; 1-20 feet, bentonite slurry; 20-41 feet, Native heave; 41-52 feet, sand, Colorado Silica, 10-20; 52-54 feet, Native heave.
				65				
				70				
				75				
				80				

REMARKS



LOG OF EXPLORATORY BORING

PROJECT NAME J.H. Baxter South Woodwaste Landfill
 LOCATION See Figure 1
 DRILLED BY Pacific Testing Lab
 DRILL METHOD H.S. Auger
 LOGGED BY G.S. Mack

BORING NO. BXS-3
 PAGE 1 OF 2
 SURFACE ELEV. 1±
 TOTAL DEPTH 44.00
 DATE COMPLETE 7/7/88

SAMPLE NUMBER	SAMPLE TYPE	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	WELL DETAILS	LITHO-GRAPHIC COLOR	DESCRIPTION
							0 - 2 feet: SOIL.
1	SPT		5				2 - 21 feet: GRAVELLY SAND; mottled to moderate yellowish brown to medium gray, sand is fine to coarse, gravel to 2" subrounded to subangular, trace of silt, poorly graded, medium dense to dense, moist. (SW)
2	SPT		10				
3	SPT		15				
4	SPT		20				
5	SPT		25				21 - 44 feet: SAND with SILT; light olive gray to medium gray, trace of clay, sand is fine to medium, stratified fine sand, medium sand, and silt, medium dense, moist, wet below 35 feet, very soft to soft. (SP)
6	SPT		30				
7	SPT		35				
8	SPT		40				

REMARKS

1) Measuring point elevation: 99.03 2) SPT = standard split spoon sampler. See end of DESCRIPTION column for "ADDITIONAL REMARKS".



LOG OF EXPLORATORY BORING

PROJECT NAME J.H. Baxter South Woodwaste Landfill
 LOCATION See Figure 1
 DRILLED BY Pacific Testing Lab
 DRILL METHOD H.S. Auger
 LOGGED BY G.S. Mack

BORING NO. BXS-3
 PAGE 2 OF 2
 SURFACE ELEV. 14
 TOTAL DEPTH 44.00
 DATE COMPLETE 7/7/88

SAMPLE NUMBER	SAMPLE TYPE	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	WELL DETAILS	LITHO-GRAPHIC COLUMN	DESCRIPTION
9	SPT		45				(continued) 21 - 44 feet: See previous page for lithologic description.
			50				Boring terminated at 44.0 feet.
			55				ADDITIONAL REMARKS: Well Construction
			60				Details - 0-32 1/2 feet, 2 inch schedule 40, PVC, blank riser pipe; 32 1/2-42 1/2 feet, 2 inch schedule 40, PVC, 0.020 inch slotted.
			65				Backfill - 0-1 foot, concrete; 1-27 feet, bentonite slurry; 27-31 feet, Natural heave;
			70				31-42 1/2 feet, sand, Colorado Silica 10-20.
			75				
			80				

REMARKS



LOG OF EXPLORATORY BORING

PROJECT NAME J.H. Baxter South Woodwaste Landfill
LOCATION See Figure 1
DRILLED BY Pacific Testing Lab
DRILL METHOD H.S. Anger
LOGGED BY G.S. Mack

BORING NO. BXS-4
PAGE 1 OF 2
SURFACE ELEV. 74.1
TOTAL DEPTH 49.00
DATE COMPLETE 7/8/88

SAMPLE NUMBER	SAMPLE TYPE	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	WELL DETAILS	LITHO-GRAPHIC COLLUM	DESCRIPTION
1	SPT		5				0 - 1 feet: FILL; sand and gravel. 1 - 17 feet: GRAVELLY SAND; mottled light to dark yellowish brown, sand is fine to coarse, gravel weathered, subangular to subrounded, loose, moist, loose to dense. (GW)
2	SPT		10				
3	SPT		15				
4	SPT		20				17 - 24 feet: SAND; olive gray, sand is fine to medium, medium dense to dense, moist. (SP)
5	SPT		25				
6	SPT		30				24 - 37 feet: SILTY CLAY; medium plasticity, low dry strength, light olive gray, very soft to soft. (ML)
7	SPT		35				
8	SPT		40				37 - 49 feet: SILTY SAND; with gravel, olive gray, decrease silt with depth, water bearing at 38 feet (confined aquifer), dense to very dense. (SW)

REMARKS

1) Measuring point elevation: 100.37 2) SPT = standard split spoon sampler. See end of DESCRIPTION column for "ADDITIONAL REMARKS".



LOG OF EXPLORATORY BORING

PROJECT NAME J.H. Baxter South Woodwaste Landfill
LOCATION See Figure 1
FILED BY Pacific Testing Lab
WELL METHOD H.S. Anger
LOGGED BY G.S. Mack

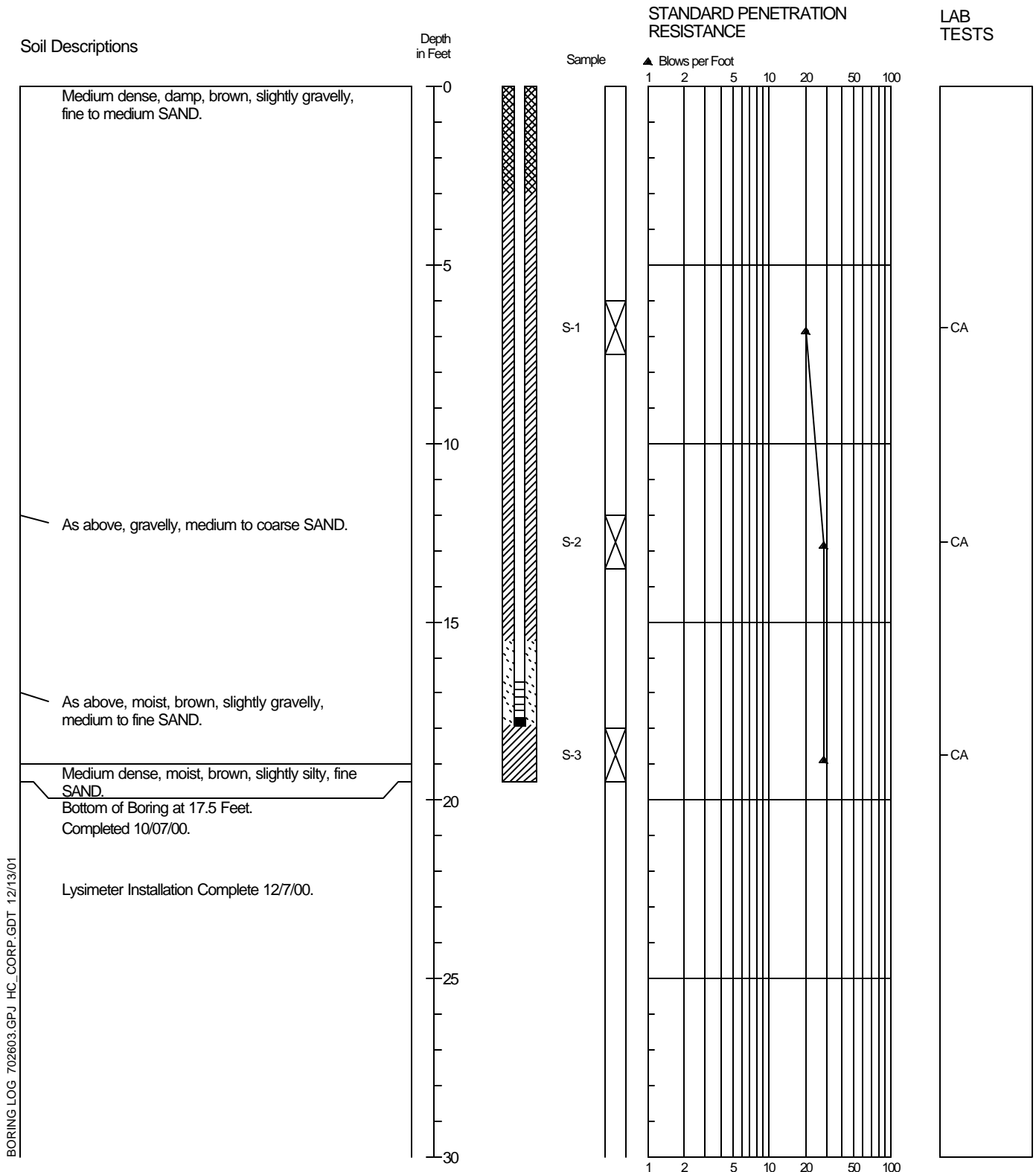
BORING NO. BXS-4
PAGE 2 OF 2
SURFACE ELEV. $1\frac{1}{2}$
TOTAL DEPTH 49.00
DATE COMPLETE 7/8/88

SAMPLE NUMBER	SAMPLE TYPE	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	WELL DETAILS	LITHO-GRAPHIC COLUMN	DESCRIPTION
9	SPT		45				(continued) 37 - 49 feet: See previous page for lithographic description. (SW)
10	SPT		50				Boring terminated at 49 feet. ADDITIONAL REMARKS: Well Construction Details - 0-37 1/2 feet, 2 inch schedule 40, PVC, blank riser pipe; 37 1/2-47 1/2 feet, 2 inch schedule 40, PVC, 0.020 inch slotted. Backfill - 0-1 foot, concrete; 1-32 feet, bentonite slurry; 32-36 feet, Native heave; 36-47 1/2 feet, sand, Colorado Silica, 10-20; 47 1/2-49 feet, Native material.
			55				
			60				
			65				
			70				
			75				
			80				

REMARKS

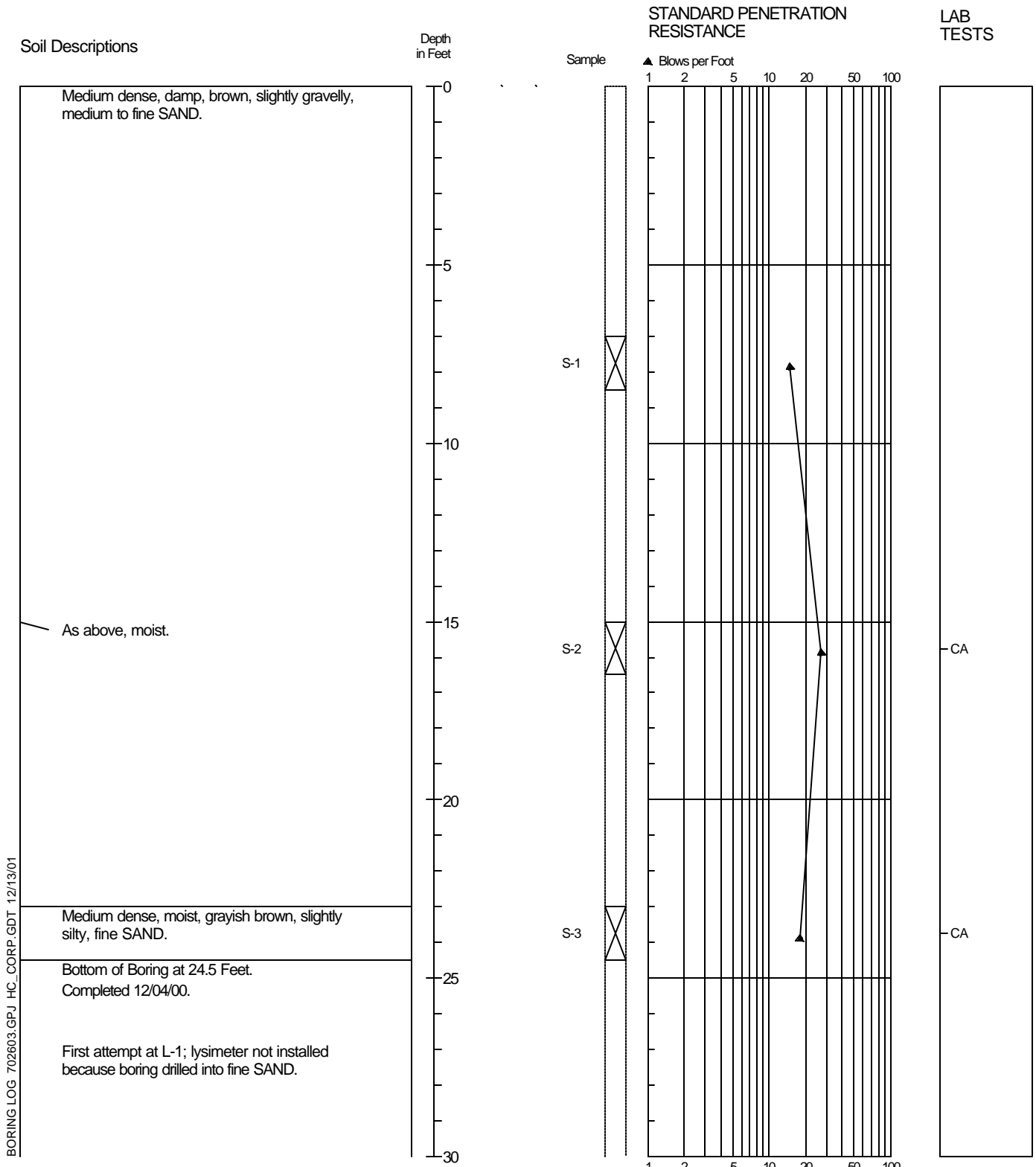


Boring Log and Construction Data for Lysimeter L-1



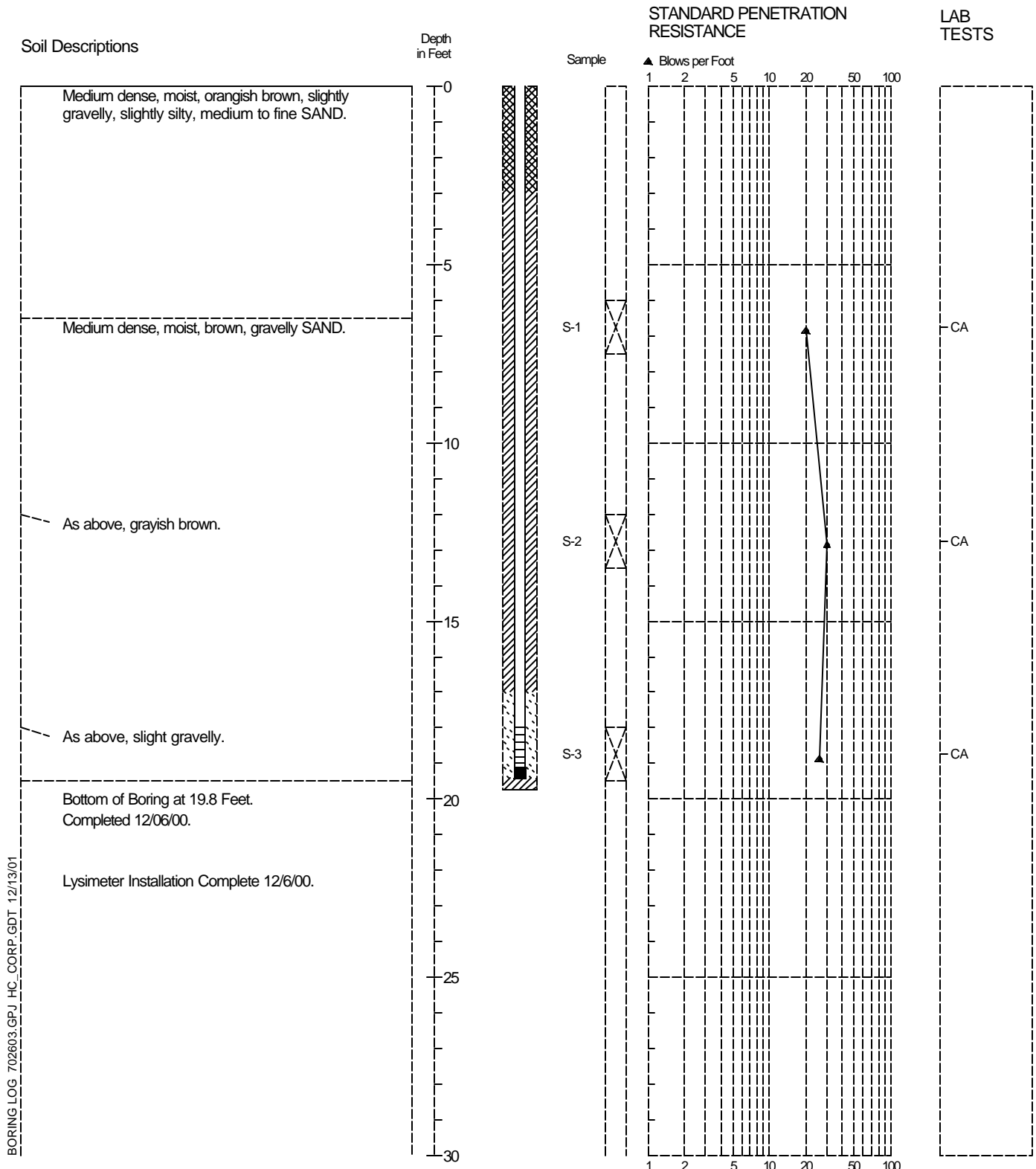
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log L-2A



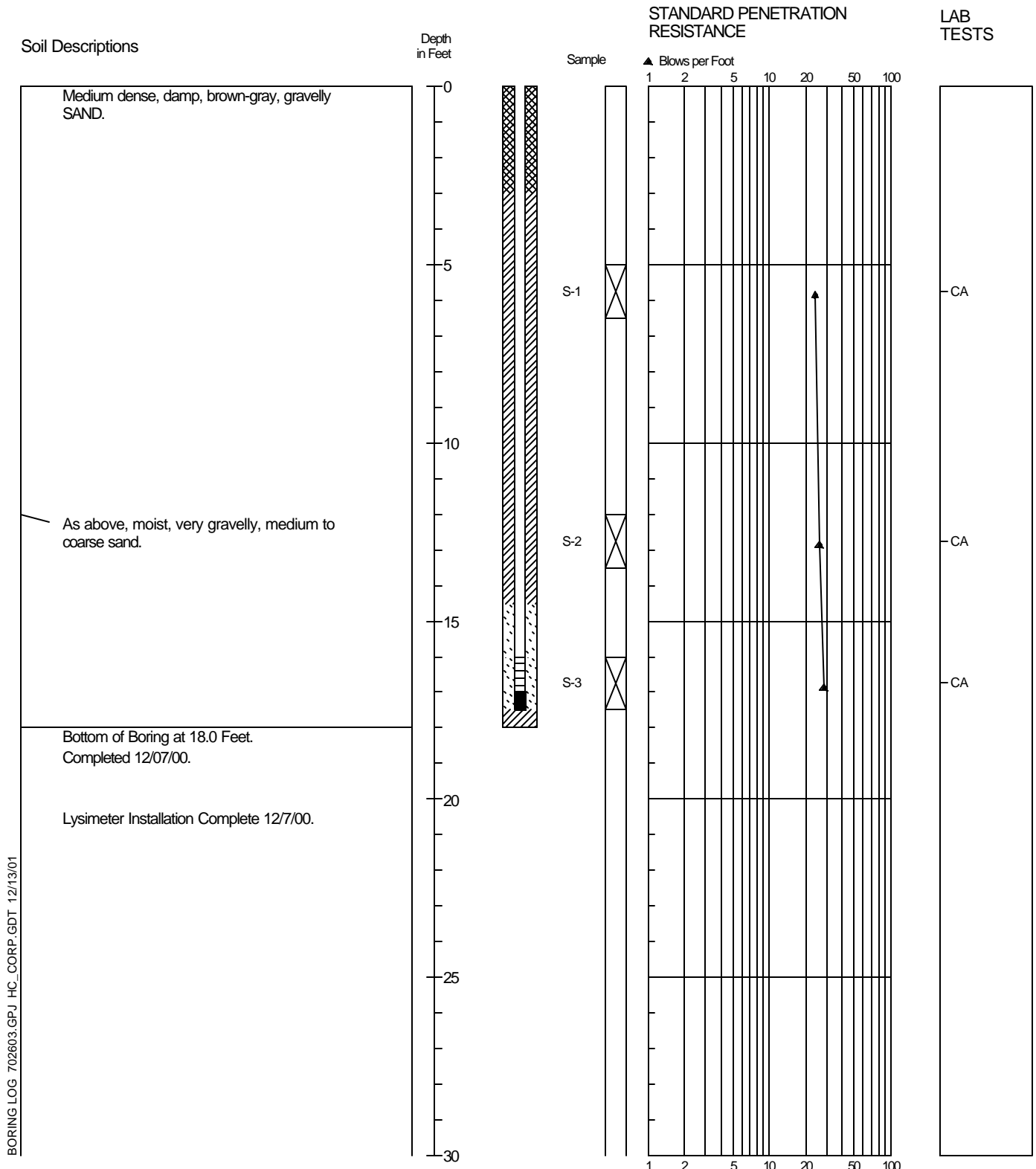
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Lysimeter L-2



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Lysimeter L-3



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Borehole ID: SB35

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/23/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 34 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, road gravel, angular.	 bentonite grout
2			100	0/N	SM	Silty SAND with gravel, gray. color change to black	
4	SO154		100	0/N	SW	SAND with gravel, brown.	
6			100	0/N			
8			80	0/N			
10			80	0/N			
12			80	0/N	GW	GRAVEL with sand, brown and gray.	
14	SO168		80	0/N	SW	SAND with gravel, brownish gray.	
16			80	0/N			
18			80	0/N			
20			80	0/N			
22			80	0/N			
24			80	0/N			
26			100	0/N			
28	SO175		100	0/N		Water encountered at 29 feet.	
30			100	0/N		SAND, brown, wet.	
32			2				
34							
36						Total depth 34 feet.	



Sample submitted for analysis



Sample examined



Static water level



Initial water level


N- No sheen observed S- Sheen observed

Borehole ID: SB36

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/23/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 34 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, road gravel, angular.	
2			100			SAND, brown, trace gravel.	
4	SO150		80	0/N	SW	SAND with gravel, brown.	
6			80	0/N			
8			80	0/N			
10			80	0/N			
12			0			No recovery, rock blocked auger.	
14	SO155		80	0/N	SW	SAND, brown, trace gravel.	
16			80	0/N		SAND with gravel.	
18			80	0/N			
20			80	0/N			
22			75	0/N	GW	GRAVEL with sand.	
24			75	0/N	SW	SAND with gravel.	
26			80	0/N		Fine to medium SAND.	
28	SO162		80	0/N	SP	Water encountered at 29 feet.	
30			25	0/N			
32			25				
34						Total depth 34 feet.	
36							

Sample submitted for analysis

Sample examined

Static water level

Initial water level

N- No sheen observed

S- Sheen observed

Borehole ID: SB37

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/23/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 39 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, road gravel, angular.	
2			80	0/N		Fine to medium SAND with gravel brown.	
4			85	0/N			
6	SO134		85	0/N			
8			85	0/N		Medium to coarse SAND with gravel, brownish gray.	
10			85	0/N			
12	SO137		85	5.8/N			
14			85	7.9/N			
16			85	4.7/N			
18			85	6.9/N			
20			85	5.8/Y			
22	SO142		85	31.0/Y		GRAVEL with sand, brownish gray, residual NAPL observed.	
24			85	29.6/Y			
26			85	31.0/Y			
28			85	14.8/Y			
30	SO146		100	0/N		Fine to medium SAND, brownish gray. Water encountered at 31 feet.	
32			100	0/N			
34			100	0/N			
36							

Sample submitted for analysis

Sample examined

Static water level




Initial water level


N- No sheen observed


S- Sheen observed


Borehole ID: SB37


Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description SAND with gravel, brown.	Borehole Completion
38			50	0/N	 SP	Fine to medium SAND, brownish gray.	
			50				
40						Total depth 39 feet.	
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							

 Sample submitted for analysis

 Sample examined

 Static water level

 Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB38

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/27/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 37 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol		Lithologic Description	Borehole Completion
0							FILL, road gravel, angular.	bentonite grout
2						SW-SM	SAND with silt, brown.	
4	SO205		75	39.5/Y		SW	SAND with gravel, brown.	
6			75	53.3/Y				
8			50	45.8/Y				
10			50	19.9/Y				
12			50	16.5/Y				
14			100	22.9/Y		GW	GRAVEL with sand, brownish gray. Residual NAPL observed at 16 feet.	
16	SO211		100	45.4/Y				
18			100	21.4/Y				
20			100	8.3/Y		SW	SAND with gravel, brownish gray, residual NAPL observed.	
22			100	6.4/Y				
24			100	7.1/Y				
26	SO216		100	3.4/N		SP	Fine to medium SAND, brown, moist.	
28			100	1.1/N				
30	SO218		100	0/N		SM	Fine silty SAND, brown and red layering, wet.	
32			100	0/N		SP	Fine SAND, brown, wet. Water encountered at 32 feet	
34			100	0/N				
36								
Total depth 37 feet.								



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB39

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/26/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75-inch
 Total Depth: 38 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0					GW	GRAVEL with sand	bentonite grout
2							
4			100			Black wood chips	
6			100				
8			100	13.7/Y		SAND with gravel, dark brown.	
10	SO191		100	17.3/Y		brown residual NAPL observed	
12			100	10.8/Y		no residual NAPL observed	
14	SO193		100	9.0/N			
16			100	9.4/N			
18	SO195		100	0/N		SAND, brown.	
20			100	4.7/N			
22			100	6.5/N	SW		
24			100	4.3/N		SAND with gravel, brownish gray.	
26			100	0/N			
28			100	6.5/N		SAND, brown.	
30	SO201		100	0/N		wet	
32			100	0/N	▽	Water encountered at 33 feet.	
34			100	0/N			
36							

Sample submitted for analysis

Sample examined

Static water level




Initial water level


N- No sheen observed


S- Sheen observed


Borehole ID: SB39


Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol		Lithologic Description	Borehole Completion
38			100	0/N		SW	SAND, brown, wet.	
40							Total depth 38 feet.	
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								
70								
72								
74								
76								
78								
80								

 Sample submitted for analysis

 Sample examined

 Static water level

 Initial water level

N- No sheen observed S- Sheen observed


Borehole ID: SB40


Page 1 of 1


Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/27/2002
Drilling Contractor: Cascade Drilling


Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 37 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion	
0						FILL, road gravel, angular.	<div>bentonite grout</div>	
2					SM	Silty SAND with wood chips, brown.		
4	SO259		75	0/N	SW	SAND with gravel, brownish gray.		
6			75	0/N				
8			50	0/N				
10			50	0/N				
12			50	0/N				
14			75	0/N				
16	SO265		75	0/N				
18			50	0/N				
20			50	0/N	GW	GRAVEL with sand, brownish gray.		
22			50	0/N	SW	SAND with gravel, brownish gray.		
24			100	0/N	SP	Fine SAND, brownish gray.		
26			100	0/N	SP	6-inch layer of silty SAND		
28			100	0/N		Fine SAND.		
30	SO272		100	0/N		▽		Water encountered at 32 feet.
32			100	0/N				
34			100	0/N				
36								
Total depth 37 feet.								

 Sample submitted for analysis

 Sample examined

 Static water level

 Initial water level

N- No sheen observed

S- Sheen observed

Borehole ID: SB41

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/27/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 42 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, road gravel, angular.	
2					SW-SM	SAND with gravel and silt, brown.	
4	SO221		100	10.5/N		SAND with gravel, brownish gray.	
6			100	0/N			
8			80	0/N	SW		
10			80	4.1/N			
12			80	0/N			
14			80	12.4/N	GW	GRAVEL with sand, brownish gray.	
16	SO227		80	0/N			
18			50	6.8/N		SAND with gravel, brownish gray.	
20			50	0/N	SW		
22			50	0/N			
24	SO231		100	14.6/N		Fine to medium SAND, brownish gray, trace gravel.	
26			100	0/N		Same as above, trace silt and no gravel.	
28			100	0/N		Fine to medium SAND, brownish gray.	
30			100	0/N	SP		
32					▽	Water encountered at 32 feet.	
34	SO235		100	0/N			
36			100	0/N			

Sample submitted for analysis

Sample examined

Static water level

Initial water level

N- No sheen observed

S- Sheen observed

Borehole ID: SB41

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Borehole Completion
38		X	100	0/N	SP	Fine to medium SAND, brownish gray.	bentonite grout
		X	100	0/N			
40		X	100	0/N			
42						Total depth 42 feet.	
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							

☒ Sample submitted for analysis

☒ Sample examined

☒ Static water level

☐ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB42

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/27/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 43 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, road gravel, angular.	
2					SW	SAND, brown. 6-inch layer of black wood chips mixed with silty sand.	
4	SO240		100	0/N	SW	SAND with gravel, brown.	
6			100	0/N	SW		
8			85	0/N	SW	SAND, brown, trace gravel.	
10			85	3.4/N	SW		
12			85	1.9/N	GW	GRAVEL with sand, brownish gray.	
14			75	1.9/N	GW		
16	SO246		75	1.5/N	SW	SAND with gravel, brownish gray.	
18			80	1.1/N	SW		
20			80	1.1/N	SW		
22			80	2.3/N	SW		
24			75	2.3/N	SW		
26			75	0/N	SW		
28	SO252		100	1.1/N	SP	Fine to medium SAND, brown and red banding.	
30			100	0/N	SP	color change to gray, wet	
32	SO254		100	0/N	▽	Water encountered at 33 feet.	
34			100	0/N			
36							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB42

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Borehole Completion
38		X	100	0/N	SP	Fine to medium SAND, gray, wet. trace silt	bentonite grout
		X	100	0/N			
40		X	100	0/N			
42							
44						Total depth 43 feet.	
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							

☒ Sample submitted for analysis

☒ Sample examined

☒ Static water level

☐ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB43

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/12, 8/16/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Geoprobe®/Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 43 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0			75		SW-SM	SAND with silt, brown.	
2			75			SAND with gravel, brown.	
4			75				
6			25		SW		
8			50				
10			65			SAND, brownish gray.	
12			3				
14			80				
16			80				
18			100			SAND, brownish gray, trace gravel.	
20			100			Geoprobe® refusal at 18 feet, switched to hollow stem auger.	
22			100				
24			100		SW		
26			100				
28			100				
30			100			Same as before without gravel.	
32			100				
34			100				
36							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB43

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Borehole Completion
38		X	100		▽	SAND, brownish gray. Water encountered at 38 feet.	bentonite grout
		X	100				
40		X	100		SW		
42		X	100				
44						Total depth 43 feet. Temporary well set.	
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							

☒ Sample submitted for analysis

☒ Sample examined

☒ Static water level

☒ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB44

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/12, 8/16/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Geoprobe®/Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 44 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
2			75			SAND with gravel, brown.	
4			80				
6			60		SW		
8			70				
10			70				
12			70		SP	Fine SAND.	
14			95			SAND with gravel, brownish gray.	
16			100			Geoprobe® refusal at 16 feet, switched to hollow stem auger.	
18			100		SW		
20			50				
22			100				
24			75			SAND, grayish brown.	
26			100		SP	Medium SAND, grayish brown.	
28			100			SAND, grayish brown.	
30			100		SW		
32			100				
34			100				
36							



Sample submitted for analysis



Sample examined



Static water level





Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB44

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol		Lithologic Description	Borehole Completion
38			100		 SW	SAND with gravel, grayish brown. Water encountered at 39 feet.	 bentonite grout	
			100					
40			100					
42			100					
44						Total depth 44 feet. Temporary well set.		
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								
70								
72								
74								
76								
78								
80								

☒ Sample submitted for analysis

☒ Sample examined

☒ Static water level

☒ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB45

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/19/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 43 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
2			50		SW-SM	SAND with silt and gravel, brown, few wood chips.	
4			50	N	SW	SAND with gravel, gray.	
6							
8			50			GRAVEL with sand, gray.	
10			75	N	GW		
12			100				
14							
16			100	N		Very fine silty SAND, light brown.	
18			100		SM		
20			100	N			
22						Very fine SAND, light brown.	
24			100	N	SW	MEDIUM SAND, grayish brown.	
26						SAND.	
28			100		GW	GRAVEL with sand, grayish brown.	
30			100	N			
32						SAND, gray.	
34			100		SW		
36			100	N			



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB45

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
38		X	100		▽	SAND, gray, wet. Water encountered at 38 feet.	bentonite grout
40		X	50		SW	Same as before with trace gravel.	
42							
44						Total depth 43 feet. Temporary well set.	
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							

☒ Sample submitted for analysis

☒ Sample examined

☒ Static water level

☒ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB46

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/19/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 43 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
2			10		SM	Silty SAND with gravel, brown.	
4			20	0/N	SW	SAND with gravel, gray.	
6			2		GW	GRAVEL with sand, gray.	
8			25	0/N	GW		
10			50		SW	SAND with gravel, gray.	
12			50	0/N	GW	GRAVEL with sand, gray.	
14			75		SW	SAND, grayish brown, trace gravel.	
16			75	0/N	SW	SAND with gravel, gray.	
18			100		SM	Very fine silty SAND, brown.	
20			100	0/N	SM		
22			100		SM		
24			100		SM		
26			100	0/N	SM		
28			100		SM		
30			100	0/N	SM		
32			100		SW	SAND.	
34			100	0/N	SW	SAND with gravel.	
36							

☒ Sample submitted for analysis
☒ Sample examined
☒ Static water level
☒ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB46

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
38		X	50		▽	SAND with gravel. Water encountered at 38 feet.	bentonite grout
40		X	100		SW		
42						Total depth 43 feet. Temporary well set.	
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							

☒ Sample submitted for analysis

☒ Sample examined

☒ Static water level

☒ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB47

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/22/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75-inch
 Total Depth: 6 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
1			50			FILL, road gravel.	
2							
3			50			SAND with angular gravel, brown.	
4					SW		
5	SO128		75				
6						Total depth 6 feet.	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							



Sample submitted for analysis



Sample examined



Static water level



Initial water level


N- No sheen observed S- Sheen observed

Borehole ID: SB48

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/22/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 6 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, angular road gravel.	
1						SAND with gravel, brown.	
2			50	0/N			
3							
4							
5	SO130		80	0/N			
6						Total depth 6 feet.	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							



Sample submitted for analysis



Sample examined



Static water level



Initial water level


N- No sheen observed S- Sheen observed

Borehole ID: SB49

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/22/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75-inch
 Total Depth: 6 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, road gravel.	
1							
2			100	0/N			
3					SM	Silty SAND, brown, cross-bedded with dark layers.	
4							
5	SO132		100	0/N	SW	SAND with gravel, brownish gray.	
6						Total depth 6 feet.	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							



Sample submitted for analysis



Sample examined



Static water level



Initial water level



N- No sheen observed S- Sheen observed

Borehole ID: SB50

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/22/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75-inch
 Total Depth: 6 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, road gravel.	
1							
2			10	0/N		GRAVEL with sand, gray.	
3					GW		
4						SAND with gravel, brown.	
5	SO131		100	0/N	SW		
6						Total depth 6 feet.	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB51

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/22/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75-inch
 Total Depth: 6 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, angular road gravel.	
1							
2			20	0/N		SAND with gravel, brown.	
3							
4					SW		
5	SO129		80	0/N			
6						Total depth 6 feet.	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB52

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/19/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 36 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						Silty SAND with gravel, brown.	
2							
4	SO047		100	0.7/N		SAND with gravel, brownish gray.	
6			100	0/N			
8			100	0/N	SW		
10			100	0/N			
12			50	0/N	GW	GRAVEL with sand, grayish brown.	
14			75	0/N		SAND with gravel, grayish brown.	
16			75	2.8/N			
18	SO054		100	0/N		SAND, grayish brown.	
20			100	0/N	SW		
22			100	1.1/N			
24			100	0/N			
26			100	0.7/N			
28			100	1.4/N		6-inch layer of silty fine SAND. Fine SAND, gray.	
30			100	0.7/N	SP	Water encountered at 31 feet.	
32							
34							
36						Total depth 36 feet. Temporary well set.	

Sample submitted for analysis

Sample examined

Static water level

Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB53

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/21/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 35 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						Wood chips	
2					SM	Silty SAND with gravel, brown.	
4			75	1.4/N		SAND with gravel, brownish gray.	
6	SO113		75	1.4/N			
8			100	9.0/N			
10			100	2.4/N			
12			100	3.5/N		SAND, brown, trace gravel. SAND with gravel, brownish gray.	
14			100	4.5/N			
16			100	9.0/N			
18			100	7.3/N		SAND, brown.	
20			100	7.3/N			
22			100	9.4/N			
24	SO122		100	11.5/N			
26			100	7.3/N			
28			100	4.9/N			
30					▽	Water encountered at 30 feet.	
32			50				
34							
36						Total depth 35 feet. Temporary well set.	

Sample submitted for analysis

Sample examined

Static water level

Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB54

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/21/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75-inch
 Total Depth: 32 feet
 Surface Elevation:

Dept	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Description	Borehole Completion
0							
2					SM	Silty SAND with gravel, brown.	
4	SO101		75	5.3/N		SAND with up to 40% gravel, brownish gray.	
6			75	7.4/N	SW		
8			100	8.1/N		Same as before with 20% gravel.	
10			100	4.6/N		Medium to coarse SAND with gravel, brownish gray.	
12			100	7.8/N	SP		
14	SO106		100	9.6/N			
16			75	7.8/N			
18			100	5.3/N		SAND, brown, trace gravel.	
20			100	7.8/N			
22			100	10.3/N	SW	Same as before without gravel.	
24			100	10.3/N			
26			100		▽	Water encountered at 27 feet.	
28							
30			100				
32						Total depth 32 feet. Temporary well set.	
34							
36							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB55

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/21/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 32 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
2					SM	Silty SAND with gravel, brown.	
4	SO091		75	0/N		SAND with gravel, light brown.	
6			15	0/N	SW	color change to brownish gray.	
8			25	1.1/N			
10			75	0/N			
12			25	1.4/N	GW	GRAVEL with sand, brownish gray.	
14			75	0.4/N			
16			100	0.7/N		SAND, grayish brown, trace gravel.	
18	SO098		100	4.6/N			
20			100	0/N	SW	SAND, brownish gray.	
22							
24			100	0.7/N		moist	
26			100		▽	Water encountered at 27 feet.	
28			100				
30							
32						Total depth 32 feet. Temporary well set.	
34							
36							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB56

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/20/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 29 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
2					SM	Silty SAND with gravel, brown.	
4	SO061		100	0/N	SW	SAND with gravel, brown.	
6			100	0/N			
8			100	0/N	GW	GRAVEL with sand, grayish brown.	
10			50	0/N			
12	SO065		75	0/N	SW	SAND with gravel, grayish brown.	
14			75	0/N			
16			100	0/N		SAND, grayish brown, trace gravel.	
18			100	0/N	SP	Fine to medium SAND, grayish brown.	
20			100	0/N			
22			100	0/N			
24			100		SW	SAND, grayish brown, moist. Water encountered at 24 feet. Same as before, trace silt, wet.	
26							
28			100				
30						Total depth 29 feet. Temporary well set.	
32							
34							
36							

bentonite grout

☒ Sample submitted for analysis
☒ Sample examined
☒ Static water level
☒ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB57

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/20/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75-inch
 Total Depth: 29 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
2					SM	Silty SAND with gravel, brown.	
4	SO082		15	1.1/N		SAND with gravel, grayish brown.	
6			25	1.8/N	SW		
8			75	1.1/N			
10			50	1.4/N			
12	SO086		25	0.4/N	GW	GRAVEL with sand, brownish gray.	
14			50	1.1/N			
16			75	0.4/N		SAND with gravel, brownish gray.	
18			100	0/N		SAND.	
20			100	2.1/N			
22			75		SW	wet	
24					▽	Water encountered at 24 feet.	
26			100				
28							
30						Total depth 29 feet. Temporary well set.	
32							
34							
36							

☒ Sample submitted for analysis
 ☒ Sample examined
 ▼ Static water level
 ▽ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB58

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/20/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75-inch
 Total Depth: 32 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
2					SM	Silty SAND with gravel, brown.	
4	SO071		50	0/N		SAND with gravel, grayish brown.	
6			75	0/N	SW		
8			75	0/N			
10			70	0/N	GW	GRAVEL with sand, grayish brown.	
12	SO075		75	0/N	SW	SAND with gravel, grayish brown.	
14			100	0/N		Fine to medium SAND, grayish brown.	
16			100	0/N			
18			100	0/N			
20			100	0/N	SP	Medium to coarse SAND, grayish brown.	
22			100	0/N		Same as before, trace gravel.	
24			100	0/N		Same as before, no gravel.	
26			100		▽	SAND with gravel. Water encountered at 27 feet.	
28					SW	SAND.	
30			100				
32						Total depth 32 feet. Temporary well set.	
34							
36							

bentonite grout

☒ Sample submitted for analysis
 ☒ Sample examined
 ▼ Static water level
 ▽ Initial water level

N- No sheen observed S- Sheen observed

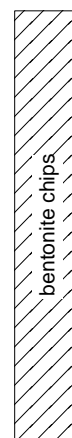
Borehole ID: SB59

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/22/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75-inch
 Total Depth: 6 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
1					SW-SM	SAND with silt and gravel, brown.	
2			15	0/N		SAND with gravel, dark brown.	
3							
4					SW		
5	SO126		100	0/N			
6						Total depth 6 feet.	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							



☒ Sample submitted for analysis
 ☒ Sample examined
 ▼ Static water level
 ▽ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB60

Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/22/2002
 Drilling Contractor: Cascade Drilling

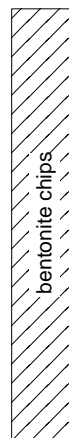
Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75-inch
 Total Depth: 6 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
1							
2			100	0/N			
3							
4							
5	SO127		100	0/N			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

SAND with silt and gravel, brown.

SW-SM

Total depth 6 feet.



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB61

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 9/6/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Dames and Moore Sampler
Borehole Diameter: 6.75-inch
Total Depth: 34 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	PID (ppm) Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, angular road gravel.	
1							
2						SAND with gravel, brown.	
3							
4						color change to brownish gray	
5	SO307		100 7/10/12	0 N			
6			100 12/15/16	0 N			
7							
8			100 15/18/20	0 N			
9			100 22/35/40	0 N			
10							
11			100 22/25/27	0 N			
12			100				
13							
14			100 15/16/16	0 N			
15	SO312		100 14/15/15	0 N		SAND brownish gray, trace gravel.	
16						SAND with gravel.	
17			100 10/12/15	0 N			
18			100 16/18/18				



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB61

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	PID (ppm) Sheen	Group Symbol	Lithologic Description	Borehole Completion
19				0 N		SAND with gravel.	
20			100 15/16/16	0 N			
21			100 15/16/16	0 N	SW		
22							
23			100 12/13/13	0 N			
24			100 12/12/13	0 N		Fine to medium SAND, brown.	
25							
26			100 12/13/14	0 N			
27							
28			100 10/11/12	0 N			
29	SO319		100 12/15/15	0 N	SP ▽	Water encountered at 29 feet.	
30			100 12/14/16	0 N			
31							
32			100 12/13/13	0 N			
33							
34				0 N			
35						Total depth 34 feet.	
36							
37							
38							
39							
40							

Sample submitted for analysis

Sample examined

Static water level

Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB62

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 9/6/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Dames and Moore Sampler
 Borehole Diameter: 6.75-inch
 Total Depth: 34 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	PID (ppm) Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, angular road gravel.	
1							
2						SAND with gravel, brown.	
3							
4							
5	SO322		100 4/4/5	0 N			
6			100 7/12/15	0 N			
7			100 12/15/15	0 N			
8			100 12/16/17	0 N			
9			100 12/16/16	0 N			
10			100 15/12/12	0 N			
11			100 12/15/13	0 N			
12			100	0 N			
13			100 13/15/15	0 N			
14	SO327		100 12/12/13	0 N			
15			100	0 N			
16			100	0 N			
17			100	0 N			
18			100	0 N			

☒ Sample submitted for analysis
 ☒ Sample examined
 ☒ Static water level
 ☒ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB62

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	PID (ppm) Sheen	Group Symbol	Lithologic Description	Borehole Completion
19				0 N		SAND with gravel, brownish gray.	
20			100 10/11/12				
21			100 11/12/13	0 N	SW		
22							
23			100 13/15/15	0 N			
24			100 10/11/12	0 N	SM	Silty fine SAND, brown, wet.	
25							
26			100 10/11/12			Fine to medium SAND, brown.	
27			100 10/11/12	0 N			
28							
29	SO334		100 10/11/12	0 N	SP	Water encountered at 29 feet. Same as before, trace gravel.	
30			100 10/10/12				
31				0 N			
32			100 10/10/11				
33			100 11/12/13	0 N			
34						Total depth 34 feet.	
35							
36							
37							
38							
39							
40							

Sample submitted for analysis

Sample examined

Static water level

Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB63

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 9/6/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Dames and Moore Sampler
Borehole Diameter: 6.75-inch
Total Depth: 37 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	PID (ppm) Sheen	Group Symbol	Lithologic Description	Borehole Completion
0						FILL, angular road gravel.	
1							
2							
3					SW	SAND, dark brown.	
4							
5			6/10/12			Wood chips, black and brown.	
6			25/30/32				
7							
8			24/37/40				
9							
10			20/23/26				
11			35/40/40				
12			100 7/10/11				
13							
14			100 20/24/25				
15	SO338		100 12/15/19	4.1 Y	SW	SAND with gravel, brownish gray, residual NAPL observed.	
16							
17			100 10/11/11	15.8 Y			
18			100 12/13/14				

☒ Sample submitted for analysis
☒ Sample examined
☒ Static water level
☒ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB63

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	PID (ppm) Sheen	Group Symbol	Lithologic Description	Borehole Completion
19				18.8 Y		SAND with gravel, brownish gray, residual NAPL observed.	
20			100 8/10/12				
21			100 10/10/11	12.8 Y			
22					SW	SAND, trace gravel, brown, residual NAPL observed.	
23	SO342		100 8/10/11	33.4 Y			
24			100 10/12/14				
25				22.9 Y			
26			100 15/16/18			Medium SAND, brown, residual NAPL observed.	
27			100 12/15/16	4.5 Y			
28							
29			100 12/14/15	10.5 Y	SP	No residual NAPL observed.	
30							
31	SO346		100 11/13/14	5.6 N			
32			100 8/9/9		▽	Water encountered at 32 feet.	
33			100 10/11/11	0 N		Silty fine SAND, brown.	
34							
35			100 10/10/12	0 N	SM		
36			100 15/15/16				
37							
38						Total depth 37 feet.	
39							
40							

Sample submitted for analysis

Sample examined

Static water level

Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB64

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 10/15/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 45 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
2					SM	Silty SAND, fine, light brown.	
4							
6			20			SAND with gravel, brown.	
8			15			color change to brownish gray	
10			75		SW		
12							
14			50				
16						Same as before, trace gravel.	
18			80				
20						Medium to coarse SAND, brownish gray.	
22			90		SP	Medium SAND, brownish gray.	
24							
26							
28			90		SW	SAND, trace gravel, brownish gray.	
30							
32			50		SP	Fine to medium SAND, brownish gray.	
34							
36							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB64						Page 2 of 2	
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Borehole Completion
38			50			SAND with gravel, brownish gray.	
40					▽	SAND, gray, wet. Water encountered at 40 feet.	
42			75		SW		
44							
46						Total depth 45 feet.	
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							

Borehole ID: SB65

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 10/14/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75-inch
Total Depth: 45 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0							
2					SM	Silty SAND with gravel, dark brown.	
4							
6			15			SAND with gravel, brown.	
8			10				
10			40		SW	SAND, brownish gray.	
12						Same as before with gravel	
14			80				
16						SAND as before, trace gravel	
18			85		SP	Fine SAND, brownish gray.	
20							
22			100		SP-SM	Fine SAND with silt, brownish gray.	
24							
26							
28			70		SW	SAND, trace gravel, brownish gray.	
30							
32			95				
34					SP	Fine to medium SAND, brownish gray.	
36							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB65							Page 2 of 2
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Borehole Completion
38					SP	Fine to medium SAND, brownish gray.	bentonite grout
40					▽	Water encountered at 40 feet.	
42					SW	SAND, brownish gray, wet.	
44							
46						Total depth 45 feet.	
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							

Borehole ID: SB2D

Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 9/18/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Sonic
 Sampling Method: Continuous core
 Borehole Diameter: 8-inch
 Total Depth: 103.5 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0			100	0/N	SW	SAND with angular road gravel, dark brown.	bentonite grout
2			100	0/N		SAND with gravel, brown.	
4			100	0/N			
6			100	0/N		color change to brownish gray.	
8			100	0/N			
10			100	0/N			
12			100	0/N			
14			100	0/N			
16			100	0/N			
18			100	0/N			
20			100	0/N			
22			100	0/N			
24			100	0/N	SP	Fine to medium SAND, brownish gray.	
26			100	0/N	SW	SAND with gravel, brownish gray.	
28			100	0/N	SP-SM	Fine SAND with silt, brown.	
30			100	0/N	SP	Fine to medium SAND, brown.	
32			100	0/N			
34			100	0/N			
36					SW		



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB2D					Page 2 of 3		
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Borehole Completion
38							
40			100	0/N	SW	SAND with gravel, brown.	
42			100	0/N			
44			100	0/N		Fine SAND, brown.	
46			100	0/N			
48			100	0/N			
50	SO424		100	0/N	SP		
52			100	0/N			
54			100	0/N			
56			100	0/N			
58			100	0/N			
60			100	0/N			
62			100	0/N			
64			100	0/N		SAND with gravel, brownish gray. color change to orange	
66			100	0/N	SW	SAND with gravel, brownish gray.	
68			100	0/N			
70			100	0/N			
72			100	0/N		Coarse SAND, brownish gray, trace gravel.	
74	SO436		100	0/N	SP		
76			100	0/N			
78			100	0/N			
80							

☒ Sample submitted for analysis
 ☒ Sample examined
 ▼ Static water level
 ▽ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB2D

Page 3 of 3

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol		Lithologic Description	Borehole Completion	
82						SP	Coarse SAND, brownish gray, trace gravel.		bentonite grout
		100	0/N						
84			100	0/N					
86			100	0/N					
88			100	0/N					
90			100	0/N					
92		100	0/N		ML	Sandy SILT, gray. 94 - 94.5 feet; as before with gravel 94.5 - 95 feet; SILT with sand, gray. 96 - 97 feet; SILT, dense, brown, organic.			
94	SO446		100				0/N		
96		100	0/N						
98			100	0/N		SP-SM	SAND with gravel and silt, gray.		
100			100	0/N					
102			100	0/N					
102						ML/ SP-SM	101.5 - 102.5 feet; SILT with sand and gravel, gray. 102.5 - 103 feet; SAND with gravel and silt, gray 103 - 103.5 feet; SILT with sand and gravel, gray. 103.5 feet; SILT, dense, brown, organic. Total depth 103.5 feet.		
104									
106									
108									
110									
112									
114									
116									
118									
120									
122									
124									



Sample submitted for analysis



Sample examined



Static water level



Initial water level


N- No sheen observed S- Sheen observed

Borehole ID: SB3D

Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 9/17/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Sonic
 Sampling Method: Continuous core
 Borehole Diameter: 8-inch
 Total Depth: 102 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Borehole Completion
0			100	0/N	SM	FILL, angular road gravel.	
2			100	0/N	SM	Silty SAND with gravel, brown.	
4			100	0/N	SW	SAND with gravel and wood chips, brown.	
6			100	0/N		SAND with gravel, brown.	
8			100	0/N			
10			100	0/N			
12			100	0/N			
14			100	0/N			
16			100	0/N			
18			100	0/N			
20			100	0/N			
22			100	0/N			
24			100	0/N	SP	Fine to medium SAND, brownish gray, trace silt.	
26			100	0/N			
28			100	0/N			
30			100	0/N		moist at 30 feet	
32			100	0/N	SW	dry at 32 feet	
34			100	0/N			
36			100	0/N		SAND with gravel, brownish gray.	



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB3D						Page 2 of 3	
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Borehole Completion
38					SW	SAND, brownish gray.	<div>bentonite grout</div>
40			100	0/N			
42			100	0/N			
44			100	0/N	SW	SAND with gravel, brown. SAND, brown, trace gravel.	
46			100	0/N			
48			100	0/N	SP	Coarse SAND with rounded gravel, brownish gray, wet.	
50	SO374		100	0/N			
52			100	0/N			
54			100	0/N			
56			100	0/N			
58			100	0/N			
60			100	0/N			
62			100	0/N			
64			100	0/N			
66			100	0/N			
68			100	0/N			
70			100	0/N			
72			100	0/N			
74	SO386		100	0/N			
76			100	0/N			
78			100	0/N			
80			100	0/N			
			100	0/N			

☒ Sample submitted for analysis
 ☒ Sample examined
 ▼ Static water level
 ▽ Initial water level

N- No sheen observed S- Sheen observed

Borehole ID: SB3D

Page 3 of 3

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Borehole Completion
82				0/N		Coarse SAND, brownish gray, trace large cobbles, wet.	
			100	0/N			
84			100	0/N			
86			100	0/N			
88			100	0/N			
90			100	0/N	SP	Coarse SAND, gray.	
92			100	0/N			
94			100	0/N			
96	SO397		100	0/N			
98			100	0/N	CL	CLAY, gray, dense.	
100			100	0/N		ROCK	
102					CL	CLAY with cobbles, gray.	
104						Total depth 102 feet.	
106							
108							
110							
112							
114							
116							
118							
120							
122							
124							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-10

Page 1 of 3

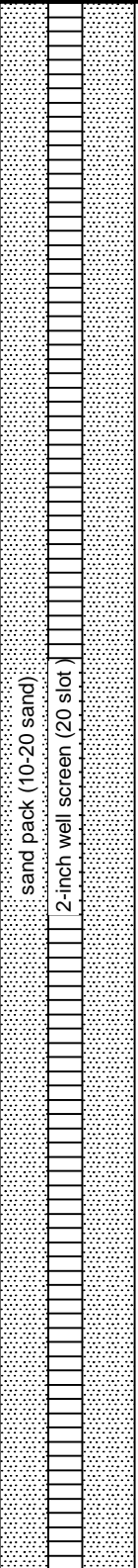
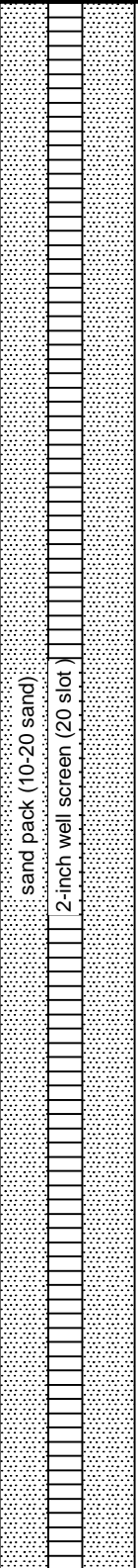
Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/26/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75 inch
Total Depth: 43 feet
Surface Elevation: 143.30
Stickup: 1.69

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Well Completion
0						Silty SAND, reddish brown, trace gravel.	
1							
2			25		SM		
3							
4							
5	SO183		100	0/N		SAND, brownish gray, trace gravel.	
6						Same as before with gravel.	
7							
8			100				
9						SAND, brownish gray, trace gravel.	
10			50	0/N			
11					SW	Same as before with gravel.	
12			50				
13							
14							
15	SO185		100	0/N			
16							
17			100				
18							

☒ Sample submitted for analysis
☒ Sample examined
☒ Static water level
☒ Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-10						Page 2 of 3	
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion
19					SW	SAND, brownish gray, with gravel.	
20			100	0/N		Fine to medium SAND, brownish gray.	
21							
22			100				
23							
24					SP		
25			100	0/N			
26							
27			100				
28							
29							
30	SO188		100	0/N		Silty fine SAND, brownish gray.	
31							
32			100				
33					▽	Water encountered at 33 feet.	
34					SM	wet	
35			100	0/N			
36							
37			100				
38							
39							
40					SP	Fine SAND, brownish gray, wet.	

Monitoring Well ID: MW-10

Page 3 of 3

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion
41						Fine SAND, brownish gray, wet.	
42							
43							
44						Total depth 43 feet.	
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-11

Page 1 of 2

Project: J.H. Baxter & Co. Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/26/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75 inch
Total Depth: 38 feet
Surface Elevation: 146.46
Stickup: -0.40

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Well Completion
0					○ ○ ○ ○	FILL, road gravel, angular.	
1					○ ○ ○ ○	FILL, brown silty sand with gravel.	
2					○ ○ ○ ○		
3					○ ○ ○ ○		
4					○ ○ ○ ○		
5	SO177		100	0/N	SW	SAND, brown.	
6					SW	Same as before with gravel.	
7			100		SW		
8			100		SW		
9					SW	color change to grayish brown	
10			100	0/N	SW		
11					SW		
12			100		SW		
13					SW		
14					SW		
15	SO179		100	0/N	SW		
16					SW		
17			100		SW		
18					SW		

Sample submitted for analysis

Sample examined

Static water level

Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-11

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion
19			100			SAND, grayish brown, with gravel. color change to brown, no gravel.	
20			100	0/NS			
21						SAND with gravel, brown.	
22			100				
23							
24				0/NS	SW		
25			100				
26							
27			100				
28					▽	Water encountered at 28 feet.	
29							
30	SO182		100	0/NS		Fine to medium SAND, brown, wet.	
31							
32			100		SP		
33							
34							
35							
36			100				
37							
38							
39						Total depth 38 feet.	
40							

☒ Sample submitted for analysis

☒ Sample examined

☒ Static water level

☒ Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-12

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/28/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75 inch
Total Depth: 38 feet
Surface Elevation: 144.48
Stickup: -0.69

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Well Completion
0						FILL, gravel, angular.	
1							
2			50			SAND with gravel, brown.	
3					SW		
4						Wood chips, brown.	
5			50				
6							
7			50				
8							
9			50				
10							
11			50				
12							
13			50				
14							
15	SO294		75	23.6/Y		GRAVEL with sand, dark gray, residual NAPL observed.	
16					GW		
17			75	27.0/Y			
18							

☒ Sample submitted for analysis
☒ Sample examined
☒ Static water level
☒ Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-12						Page 2 of 2	
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion
19	SO296		80	44.3/Y	SW	SAND with gravel, brown, residual NAPL observed.	
20							
21			80	30.0/Y			
22						Same as before with trace gravel.	
23			80	24.0/Y	SP		
24							
25			100	35.3/Y		Fine SAND, brown, residual NAPL observed.	
26							
27			100	30.4/Y	SM		
28							
29			100	29.3/Y			
30						Silty fine SAND, <u>odor.</u>	
31			100	20.3/Y	SP		
32							
33			100	9.4/N		Fine SAND, no visual indications of NAPL. Water encountered at 33 feet.	
34							
35			100	11.3/N	SP		
36							
37	SO305		100	3.8/N			
38							
39							
40						Total depth 39 feet. Backfilled with sand to 38 feet.	

Monitoring Well ID: MW-13

Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 8/28/2002
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Continuous core
 Borehole Diameter: 6.75 inch
 Total Depth: 42 feet
 Surface Elevation: 147.40
 Stickup: -0.78

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Well Completion
0						FILL, angular road gravel.	
1						SAND with silt and gravel, brown.	
2			15		SW-SM		
3							
4							
5			70	0/N		SAND with gravel, black, trace wood chips.	
6							
7	SO276		70	0/N		SAND with gravel, brown.	
8							
9			75	0/N		color change to brownish gray	
10							
11	SO278		75	0/Y	SW		
12							
13			75	0/Y			
14							
15			75	3.0/Y		color change to dark brown, residual NAPL observed	
16							
17			75	4.9/Y			
18							

☒ Sample submitted for analysis
 ☒ Sample examined
 ▼ Static water level
 ▽ Initial water level

N- No sheen observed S- Sheen observed

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion		
19	SO282		75	9.4/Y	SW	SAND with gravel, dark brown, mobile NAPL observed.	<div><div></div><div>sand pack (10-20 sand)</div><div>4-inch stainless steel well screen (20 slot)</div><div></div></div>		
20									
21			75	13.9/Y					
22									
23			75	5.3/Y					
24									
25			80	12.8/Y					
26									
27			80	8.6/Y		Fine SAND, mobile NAPL observed.			
28									
29			80	6.8/Y					
30									
31			80	5.6/Y					
32								▽	Water encountered at 32 feet.
33	SO289		80	6.4/Y				SP	Same as before, residual NAPL observed.
34									
35			100	7.5/Y					
36									
37			100	1.1/Y					
38									
39	SO292		100	1.1/Y					
40									



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-13

Page 3 of 3

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion
41		X	100	2.3/N	SP	Fine SAND as before.	sand backfill:
42						Total depth 42 feet, backfilled to 37.	
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-14

Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 8/22/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 6.75 inch
Total Depth: 38 feet
Surface Elevation: 139.88
Stickup: 1.82

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Well Completion
0	SO125					FILL, coarse gravel with sand and silt.	
1			10	0/N			
2						SAND, trace gravel.	
3			10	0/N	SW		
4						SAND with gravel, medium to coarse sand, 20 - 30% gravel.	
5			80	0/N			
6					SP		
7							
8			80				
9						SAND with gravel, gray.	
10							
11							
12			100	0/N			
13							
14					SW		
15							
16			75	0/N			
17							
18							



Sample submitted for analysis



Sample examined



Static water level

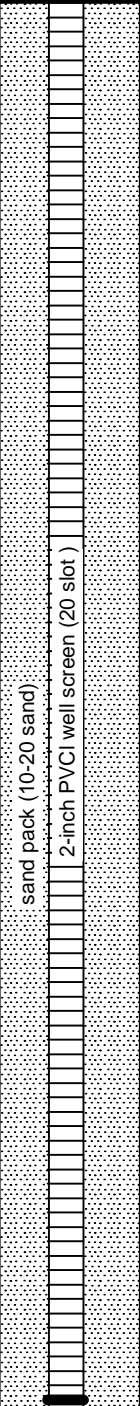
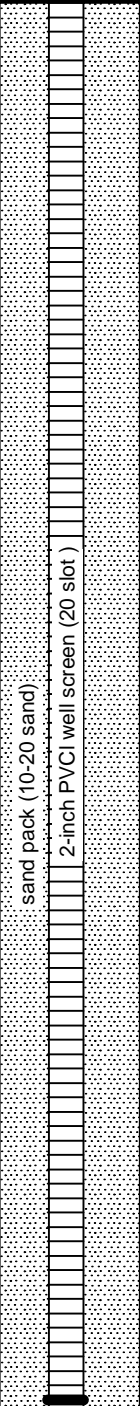


Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-14

Page 2 of 2

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion
19					SW	SAND with gravel, gray.	
20						Fine to medium SAND, brownish gray.	
21			100	0/N			
22							
23							
24							
25							
26			100	0/N			
27							
28					▽ SP	Water encountered at 28 feet.	
29							
30							
31			100	0/N			
32							
33							
34						Same as before with trace gravel.	
35							
36			100	0/N			
37							
38						Total depth 38 feet.	
39							
40							



Sample submitted for analysis



Sample examined



Static water level



Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-15

Page 1 of 3

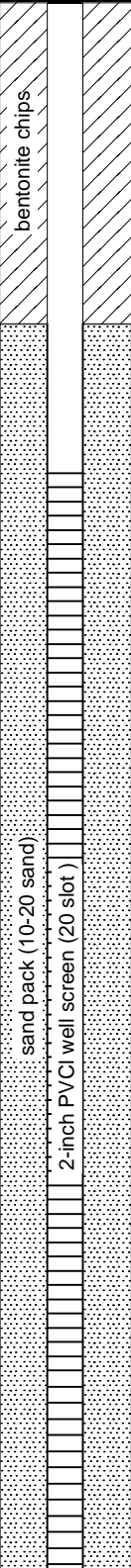
Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 10/14/2002
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Continuous core
Borehole Diameter: 8-inch
Total Depth: 50 feet
Surface Elevation:
Stickup:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Well Completion
0							
1			100		SM	Silty SAND with gravel, brown.	
2							
3			100			SAND with gravel, brown.	
4							
5							
6			10		SW		
7							
8							
9			10				
10							
11			90			SAND, brown, trace gravel.	
12							
13						SAND with gravel, brownish gray.	
14			80		SP	Fine SAND, brownish gray.	
15							
16			75		SW	SAND, trace gravel, brownish gray.	
17						SAND with gravel, brownish gray.	
18							

☒ Sample submitted for analysis
☒ Sample examined
☒ Static water level
☒ Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-15						Page 2 of 3	
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion
19			100		SW	SAND, trace gravel, brownish gray.	
20							
21			90				
22							
23			95				
24							
25					SP	Same as before, no gravel.	
26			100			SAND, trace gravel, brownish gray.	
27							
28			100			Medium to coarse SAND, brownish gray.	
29							
30							
31			100		SW		
32							
33			100				
34							
35						Coarse SAND, brownish gray.	
36			100			Medium SAND, brownish gray.	
37					SW		
38			100			SAND, brownish gray.	
39							
40						Water encountered at 40 feet.	

☒ Sample submitted for analysis
 ☒ Sample examined
 ▼ Static water level
 ▽ Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-15

Page 3 of 3

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion
41			100			SAND, brownish gray, wet.	
42							
43							
44							
45					SW		
46							
47							
48							
49							
50							
51						Total depth 50 feet.	
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							

☒ Sample submitted for analysis
 ☒ Sample examined
 ☒ Static water level
 ☒ Initial water level

N- No sheen observed S- Sheen observed

Monitoring Well ID: MW-16

Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 9/29/2003
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Borehole Diameter: 8-inch
 Total Depth: 50 feet
 Depth to Water: 40 feet
 Surface Elevation:



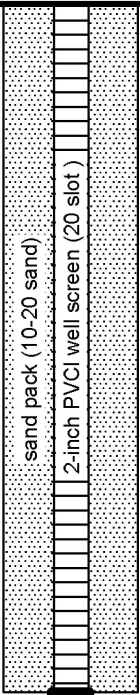


Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Count	Group Symbol	Lithologic Description	Well Completion
0							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11	SO4000						
12							
13							
14							
15							
16							
17							
18							


☒ Sample submitted to laboratory - on hold
 ☒ Sample examined
 ☒ Static water level
 ☒ Initial water level


Monitoring Well ID: MW-16						Page 2 of 3	
Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Group Symbol	Lithologic Description	Well Completion
19	SO4001				SW	SAND, trace gravel, brownish gray.	<div>bentonite chips</div> <div>2-inch blank PVC</div>
20		<div></div>	100	17 23 29	SM	Fine SILTY SAND, tan to brown.	
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							


Monitoring Well ID: MW-16


Page 3 of 3

Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Group Symbol	Lithologic Description	Well Completion
41	SO4002		100	36 38	 SP	Fine to medium SAND, gray.	
42							
43							
44							
45			100	50/6			
46						Total depth 50 feet.	
47							
48							
49							
50			100	50/6			
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							

 Sample submitted to laboratory - on hold

 Sample examined

 Static water level

 Initial water level

Project: J.H. Baxter & Co. - Arlington Facility
Location: Arlington, WA
Contract Number: 201029
Geologist/Engineer: Evalyn Albright
Drilling Date(s): 9/30/2003
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
Sampling Method: Split Spoon
Borehole Diameter: 8-inch
Total Depth: 55 feet
Depth to Water: 44 feet
Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Count	Group Symbol	Lithologic Description	Well Completion
0							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11	SO4003						
12							
13							
14							
15							
16							
17							
18							

 Sample submitted to laboratory - on hold

☒ Sample examined

▼ Static water level

 Initial water level

Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Group Symbol	Lithologic Description	Well Completion
19	SO4004				GW	GRAVEL with sand, grayish brown.	<div> <div>bentonite chips</div> <div>2-inch blank PVC</div> <div>sand pack (10-20 sand)</div> <div>2-inch PVC well screen (20 slot)</div> </div>
20		X	100	27	SP	Medium to coarse SAND, gray.	
21				28			
22				30			
23							
24							
25		X	90	18		Coarse SAND with gravel, gray.	
26				36			
27				50			
28							
29							
30		X	25	80/6	GW	GRAVEL with coarse sand, gray.	
31					SP		
32							
33							
34							
35		X	75	50/6		Coarse SAND with gravel, gray.	
36							
37							
38							
39							
40			50	100/5	GW	GRAVEL with coarse sand, gray.	

Sample submitted to laboratory - on hold

Sample examined

Static water level

Initial water level

Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Group Symbol	Lithologic Description	Well Completion
41	SO4005		50		GW	GRAVEL with coarse sand, gray.	
42							
43							
44						Water encountered at 44 feet.	
45					SP	Fine SAND, gray, trace silt, wet.	
46			100	20 50			
47							
48							
49							
50						Fine SAND, gray, wet.	
51			100	20 50/4			
52							
53							
54						Heaving sands, no sample collected.	
55						Total depth 55 feet.	
56							
57							
58							
59							
60							
61							
62							

Sample submitted to laboratory - on hold

Sample examined

Static water level

Initial water level

Monitoring Well ID: MW-18

Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility
 Location: Arlington, WA
 Contract Number: 201029
 Geologist/Engineer: Evalyn Albright
 Drilling Date(s): 9/30/2003
 Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Borehole Diameter: 8-inch
 Total Depth: 55 feet
 Depth to Water: 45 feet
 Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Count	Group Symbol	Lithologic Description	Well Completion
0							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11	SO4006						
12							
13							
14							
15							
16							
17							
18							

☒ Sample submitted to laboratory - on hold
 ☒ Sample examined
 ☒ Static water level
 ☒ Initial water level

Monitoring Well ID: MW-18

Page 3 of 3

Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Group Symbol	Lithologic Description	Well Completion
41	SO4008	X	100	21 26	SP	Fine SAND, brownish gray.	
42							
43							
44							
45		X	100	23 26 29		Same as before, color change to gray, wet. Water encountered at 45 feet.	
46							
47							
48							
49							
50		X	80	31 50		Same as before, trace silt.	
51							
52							
53							
54							
55						Heaving sands, no sample collected.	
56						Total depth 55 feet.	
57							
58							
59							
60							
61							
62							

Sample submitted to laboratory - on hold

Sample examined

Static water level

Initial water level